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SELECTED UNIVERSITY SERVICE

Northwestern University

University of Illinois, Urbana-Champaign

University of Southern California

PUBLIC SERVICE

Consulting Activities

Selected Publications for Media and Popular Press

EDUCATION

Ph.D., Communication, University of Southern California, 1987.

Dissertation Title: *A Dynamic Reformulation of Perceptions of Equity: Their Organizational Antecedents and Outcomes*

M. A., Communication, University of Southern California, 1986.

B. Tech. Electrical Engineering, Indian Institute of Technology, Madras (Chennai), 1983.

ACADEMIC APPOINTMENTS

2007–present Jane S. & William J. White Professor of Behavioral Sciences
Departments of Communication Studies, Industrial Engineering and
Management Sciences, Management and Organizations, and Computer
Science (By courtesy)
Northwestern University

2001-2007 Professor of Speech Communication
University of Illinois at Urbana-Champaign

1993-2001 Associate Professor of Speech Communication
University of Illinois at Urbana-Champaign

1987-1993 Assistant Professor of Speech Communication
University of Illinois at Urbana-Champaign

Other Appointments at University of Illinois at Urbana-Champaign:

- Director, Computing and Instructional Laboratories, Department of Speech Communication, 1987-2007
- Director, Team Engineering Collaboratory, Department of Speech Communication, 1991-2007
- Faculty, Department of Psychology, 1994–2007
- Affiliate, Human Perception and Performance Group, Human-Computer Intelligent Interaction, Beckman Institute for Advanced Science and Technology, 2000-2007
- Beckman Associate, UIUC Center for Advanced Study, 2003-2004
- Faculty, Coordinated Science Laboratory, 2003-2007
- Director, Science of Networks in Communities (SONIC) Group,

- at the National Center for Supercomputing Applications, 2004-2007
- Resident Associate, UIUC Center for Advanced Study, 2005-2006
- Faculty, Graduate School of Library & Information Science, 2006-2007

HONORS AND AWARDS

Distinguished and Career Recognition

Fellow, The Association for Computing Machinery (ACM), 2019.

Fellow, American Association for the Advancement of Science (AAAS), 2019.

Lifetime Service Award, Organizational Communication and Information Systems Division, Academy of Management, 2019.

Distinguished Speaker Award, Organizational Communication and Information Systems Division, Academy of Management, 2019.

Distinguished Alumnus Award, Indian Institute of Technology, Madras, 2018.

Fellow, International Communication Association, 2015.

Distinguished Scholar Award, National Communication Association, 2014.

Outstanding Member Award, Organizational Communication Division, International Communication Association, 2000.

Institute Gold Medal, in recognition of outstanding overall achievement during pursuit of Bachelor of Technology degree, Indian Institute of Technology, Madras, India, 1983.

Article and Book Awards

Article of the Year Award (2015), Communication Theory and Methodology Division, Association for Education in Journalism and Mass Communication, for "[Dynamic models of communication in an online friendship network](#)" in *Communication Methods and Measures* 8 (2014): 223-243

Outstanding Scholarly Edited Book Award (2014), Organizational Communication Division, National Communication Association, for "[Emergence of multidimensional social networks](#)" in *Handbook of Organizational Communication*, edited by Linda L. Putnam and Dennis Mumby (Thousand Oaks, CA: Sage, 2014), 451-474

Ernest Bormann Research Book Award (2013), Group Communication Division, National Communication, for "[Understanding groups from a network perspective](#)" in *Research methods for studying groups and teams: A Guide to approaches, tools, and technologies*, edited by Marshall Scott Poole and Andrea Hollingshead (New York: Taylor & Francis/Routledge, 2012), 284-310

Article of the Year Award (2012), Organizational Communication Division, National Communication Association, for "[A structural approach to the evolution of organizational networks](#)" in *Human Communication Research* 37 (2011): 404-433

Ernest Bormann Research Award (2006), Group Communication Division, National Communication Association for "[The network perspective on small groups: Theory and research](#)" in *Theories of small groups: Interdisciplinary perspectives*, edited by Marshall Scott Poole and Andrea Hollingshead (Newbury Park, CA: Sage, 2005), 277-312

Outstanding Book Award (2003), Organizational Communication Division, National Communication Association, for [Theories of Communication Networks](#) (New York: Oxford University Press, 2003)

Top Paper Awards

Best Paper Award and Best Student Paper Award (2020), Organizational Communication and Information Systems Division, Academy of Management, for *Institutional complexity in social ventures: Scale development through two studies*. Paper presented at the Academy of Management Annual Conference, Virtual.

Top 4 Paper Award (2020), Group Communication Division, National Communication Association, for *Dynamics of processes and performance of teams using enterprise social media*. Paper presented at the 106th Annual Convention of the National Communication Association (NCA), Indianapolis, IN.

[Honorable Mention Award \(2020\)](#) for How displaying team diversity information influences preferences for heterophily in *Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20)*.

Best Paper Award and Best Social Entrepreneurship Paper Award (2019), Entrepreneurship Division, Academy of Management, for *Where does innovation come from? Exploring the dynamic processes of organizing and managing social entrepreneurship and innovation*. Paper presented at the Academy of Management Annual Conference, Boston, MA.

Top 4 Paper Award (2017), Organizational Communication Division, International Communication Association, for *Collective innovation adoption across interorganizational systems: Organizational boundary, social networks, and decision-making status*. Paper presented at the 67th Annual Conference of the International Communication Association, San Diego, CA.

Top Paper Award (2016), for *A network approach for understanding and analyzing product co-consideration relations in engineering design*. Paper presented at the 14th International Design Conference, Cavtat, Dubrovnick, Croatia.

Top Paper Award (2015), for *The Effect of Entrainment of Group Processes on Multiteam System Effectiveness*. Paper presented at the 101th Annual Convention of the National Communication Association (NCA), Las Vegas, Nevada.

Best Conference Poster Award (2015), for *The MyDreamTeam builder: A recommender system for assembling & enabling effective teams*. Poster presented at the 10th Annual Interdisciplinary Network for Group Research (INGRoup) Conference, Pittsburgh, PA.

Top Paper Award (2013), for “Towards next generation health data exploration: A data cube-based investigation into population statistics for tobacco IT innovation” in *Proceedings of the Hawaii International Conference On System Sciences (HICSS)*

Top Paper Award (2011), for *Sic transit Gloria mundi virtuali? Promise and peril in the computational social science of clandestine organizing*. Paper presented at the 3rd International ACM Web Science Conference, Koblenz, Germany.

Top 3 Paper Award (2011), Organizational Communication Division, International Communication Association, for *Why would you save your files in a group folder? A multilevel analysis of contextual influences on information provision to work group digital databases*. Paper presented at the 61th Annual Conference of the International Communication Association, Singapore.

Carolyn Dexter Paper Award Finalist (2010), for *The effects of diversity and repeat collaboration on team performance in distributed nanoscientist teams*. Paper presented at the Annual Meeting of the Academy of Management, Montreal, Canada.

Top Paper Award (2009), for *Knowledge seeking and provision in work teams across multiple Knowledge areas: A network formulation to test and extend transactive memory theory*. Paper presented at the Interdisciplinary Network for Group Research (INGRoup) Annual Conference, Colorado Springs, CO.

Top 3 Paper Award (2008), for *From micro-actions to macro-structure: A structural approach to the evolution of organizational networks*. Top Paper Award at the 94th Annual Convention of the National Communication Association (NCA), San Diego, CA.

Top 3 Paper Award (2000), Organizational Communication Division, International Communication Association, for *Testing multi-level, multi-theoretical hypotheses about networks in 21st century organizational forms: An analytic framework and empirical example*. Organizational Communication Division. Paper presented at the 50th Annual Conference of the International Communication Association, Acapulco, Mexico.

Top 3 Paper Award (1998), International Communication Association, for *Self-organizing communication networks in organizations: Validation of a computational model using exogenous and endogenous theoretical mechanisms*. Paper presented at the 48th Annual Conference of the International Communication Association, Jerusalem, Israel.

Top 3 Paper Award (1997), for *Computational organizational network modeling: Strategies and an example*. Paper presented in the Organizational Communication Division at the Annual Conference of the International Communication Association, Montreal, Canada.

Top 3 Paper Award (1988), Organizational Communication Division, International Communication Association, for *Semantic networks in organizations*. Paper presented at the Annual Conference of the International Communication Association, New Orleans, LA.

Software Awards

Honorable Mention, IMS Global Consortium Learning Impact Award (2017), *Nebula*

Advisee Dissertation Awards

Dissertation Committee, Sophia Fu, Winner of the Gabriel G. Rudney Memorial Award for Outstanding Dissertation in Nonprofit and Voluntary Action Research, Association for Research on Nonprofit Organizations and Voluntary Action, 2020

Dissertation Committee, Sophia Fu, Winner of the W. Charles Redding Dissertation Award, International Communication Association, 2019

Dissertation Committee, Sophia Fu, Winner of the Gerald R. Miller Outstanding Dissertation Award, National Communication Association, 2019

Dissertation Adviser, Jacqueline Ng, Best Dissertation Award Finalist, Technology & Innovation Management Division, Academy of Management, 2019.

Dissertation Adviser, Aaron Schechter, Hackman Outstanding Dissertation Award, Interdisciplinary Network of Group Research (INGRoup), 2018.

Dissertation Committee, Sophia Fu, Winner of the Doctoral Dissertation Research Improvement Grant, Decision, Risk, and Management Sciences Division, National Science Foundation, 2017

Dissertation Adviser, Jacqueline Ng, Finalist at the Institute for Operations Research and Management Science (INFORMS) Organization Science Dissertation Proposal Competition, 2017.

Dissertation Adviser, Alina Lungeanu, Graduate Dissertation Award, Northwestern University School of Communication, 2016.

Dissertation Adviser, Sophia Sullivan, Finalist, Alvah H. Chapman Jr. Outstanding Dissertation Award, Network of Leadership Scholars of the Academy of Management, 2015.

Dissertation Adviser, Mengxiao Zhu, Honorable Mention, Richard Hackman Dissertation Award, Interdisciplinary Network for Group Research (INGRoup), 2014.

Dissertation Adviser, Brooke Foucault-Welles, Special Mention Recognition for Dissertation, Communication & Technology Division, International Communication Association, 2013.

Dissertation Co-Adviser, David Huffaker, Winner of the Dordick Dissertation Award, Communication & Technology Division, International Communication Association, 2010.

Dissertation Adviser, Edward Palazzolo, Honorable Mention, Redding Dissertation Award Competition, Organizational Communication Division, International Communication Association, 2004.

PUBLICATIONS

Books

National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Behavioral, Cognitive, and Sensory Sciences, & Committee on a Decadal Survey of Social and Behavioral Sciences for Applications to National Security. (2019). [*A Decadal Survey of the Social and Behavioral Sciences: A Research Agenda for Advancing Intelligence Analysis*](#). National Academies Press.

Ahmad, M. A., Shen, C., Srivastava, J., and Contractor, N. S. (Eds.). (2014). [*Predicting real world behaviors from virtual worlds data*](#). Cham: Springer International Publishing.

O'Hara, K., Contractor, N. S., Hall, W., Hendler, J. A., & Shadbolt, N. (2013). [*Web Science: Understanding the emergence of macro-level features on the World Wide Web*](#). *Now Foundations and Trends*[®], 4(2-3), 103-267. [doi:10.1561/18000000017](https://doi.org/10.1561/18000000017)

Steinfeld, C., Pentland, B. T., Ackerman, M., & Contractor, N. (Eds.) (2007). *Communities and Technologies 2007*. Proceedings of the Third Communities and Technologies Conference, London: Springer London.

Monge, P. R., & Contractor, N. (2003). [*Theories of communication networks*](#). New York: Oxford University Press.

Refereed Journal Articles

- Lungeanu, A., McKnight, M., Negron, R., Munar, W., Christakis, N. A., & Contractor, N. S. (2021). [Using Trellis software to enhance high-quality large-scale network data collection in the field](#). *Social Networks*, 66:171-184. doi:10.1016/j.socnet.2021.02.007
- Birkett, M., Melville, J., Janulis, P., Phillips, G., Contractor, N., & Hogan, B. (2021). [Network Canvas: Key decisions in the design of an interviewer-assisted network data collection software suite](#). *Social Networks*, 66:114-124. doi: 10.1016/j.socnet.2021.02.003
- Cedeno-Mieles, V., Hu, Z., Ren, Y., Deng, X., Contractor, N., Ekanayake, S., Epstein, J. M., Goode, B. J., Korkmaz, G., Ramakrishnan, C N., Saraf, P., & Self, N. (2020). [Data analysis and modeling pipelines for controlled networked social science experiments](#). *PLoS ONE*, 15(11). doi: 10.1371/journal.pone.0242453
- Whalen, R., Lungeanu, A., DeChurch, L. A., & Contractor N. (2020). [Patent Similarity data and innovation metrics](#). *Journal of Empirical Legal Studies*, 17(3), 615-639. doi: 10.1111/jels.12261
- Lazer, D. M. J., Pentland, A., Watts, D. J., Aral, S., Athey, S., Contractor, N., Freelon, D., Gonzalez-Bailon, S., King, G., Margetts, H., Nelson, A., Salganik, M. J., Strohmaier, M., Vespignani, A., & Wagner, C. (2020). [Computational social science: Obstacles and opportunities](#). *Science*, 369(6507), 1060–1062. doi: 10.1126/science.aaz8170
- Fu, J. S., Schumate, M., & Contractor, N. (2020). [Organizational and individual innovation decisions in an interorganizational system: Social influence and decision-making authority](#). *Journal of Communication*, 70(4), 497-521. doi.org/10.1093/joc/jqaa018.
- Mell, J. N., DeChurch, L. A., Contractor, N., & Leenders, R. (2019). [Identity asymmetries: An experimental investigation of social identity and information exchange in multiteam systems](#). *Academy of Management Journal*. doi: 10.5465/amj.2018.0325
- Cedeno-Mieles, V., Hu, Z., Ren, Y., Deng, X., Adiga, A., Barrett, C., Contractor, N., Ekanayake, S., Epstein, J. M., Goode, B. J., Korkmaz, G., Kuhlman, C. J., Machi, D., Macy, M. W., Marathe, M. V., Ramakrishnan, N., Ravi, S. S., Saraf, P., & Self, N. (2020). [Networked experiments and modeling for producing collective identity in a group of human subjects using an iterative abduction framework](#). *Social Network Analysis and Mining*, 10(1), 11. <https://doi.org/10.1007/s13278-019-0620-8>
- Contractor, N. (2020). On Writing in Communication and Media Studies | [A “Modest Proposal” on Writing That Is Not Modest Enough](#). *International Journal Of Communication*, 14, 4. <https://ijoc.org/index.php/ijoc/article/view/13987/2921>
- Hogan, B., Janulis, P., Phillips II, G., Melville, J., Mustanski, B., Contractor, N., & Birkett, M.(2019).

[Assessing the stability of ego-centered networks over time using the digital participant-aided sociogram tool Network Canvas](#). *Network Science*, 1-19. doi: [10.1017/nws.2019.27](https://doi.org/10.1017/nws.2019.27)

Hilbert, M., Barnett, G., Blumenstock, J., Contractor, N., Diesner, J., Frey, S., González-Bailón, S., Lamberson, P.J., Pan, J., Peng, T. W., Shen, C. C., Smaldino, P. E., Atteveldt, W. V., Waldher, A., Zhang, J., Zhu, J. J. H. (2019). [Computational communication science: A methodological catalyzer for a maturing discipline](#). *International Journal of Communication*, 13(0), 23. <https://ijoc.org/index.php/ijoc/article/view/10675>

Larson, L., Wojcik, H., Gokhman, I., DeChurch, L., Bell, S., & Contractor, N. (2019). [Team performance in space crews: Houston, we have a teamwork problem](#). *Acta Astronautica*, 161, 108–114. doi: [10.1016/j.actaastro.2019.04.052](https://doi.org/10.1016/j.actaastro.2019.04.052)

Kim, M. J., Lee, C., & Contractor, N. S. (2019). [Seniors' usage of mobile social network sites: Applying theories of innovation diffusion and uses and gratifications](#). *Computers in Human Behavior*, 90, 60-73. doi:[10.1016/j.chb.2018.08.046](https://doi.org/10.1016/j.chb.2018.08.046)

Gómez-Zará, D., Andreoli, S., DeChurch, L. A., & Contractor, N. S. (2019). [Descubriendo colaboradores en línea: Formando equipos interdisciplinarios en una universidad argentina](#). *Cuadernos.info*, 0(44), 21–41

Mukherjee, S., Huang, Y., Neidhardt, J., Uzzi, B., Contractor, N., (2019). [Prior shared success predicts victory in team competitions](#). *Nature Human Behaviour*, 3, 74-81. doi:[10.1038/s41562-018-0460-y](https://doi.org/10.1038/s41562-018-0460-y)

Leonardi, P., & Contractor, N. S. (2018, Nov-Dec). [Better people analytics: Measure who they know, not just who they are](#). *Harvard Business Review*, 70–81. <https://hbr.org/2018/11/better-people-analytics#comment-section>

Lungeanu, A., Carter, S. R., DeChurch, L. A., & Contractor, N. S. (2018). [How team interlock ecosystems shape the assembly of scientific teams: A hypergraph approach](#). *Communication Methods and Measures*, 12(2-3), 174-198. doi:[10.1080/19312458.2018.1430756](https://doi.org/10.1080/19312458.2018.1430756)

Sha, Z., Huang, Y., Fu, J. S., Wang, M., Fu, Y., Contractor, N., & Chen, W. (2018). [A network-based approach to modeling and predicting product co-consideration relations](#). *Complexity*, 2018(3), 1–14. <https://doi.org/10.1080/19312458.2018.1430756>

Hendler, J. A., Hall, W., & Contractor, N. (2018). [Web science: Now more than ever](#). *IEEE Computer*, 51(6), 12–17. doi:[10.1109/MC.2018.2701637](https://doi.org/10.1109/MC.2018.2701637)

Schechter, A., Pilny, A., Leung, A., Poole, M. S., & Contractor, N. (2017). [Step by step: Capturing the dynamics of work team process through relational event sequences](#). *Journal of Organizational Behavior*, 2017, 1–19. <https://doi.org/10.1002/job.2247>

- Wax, A., DeChurch, L., & Contractor, N. (2017). [Self-organizing into winning teams: Understanding the mechanisms that drive successful collaborations](#). *Small group research*, 48(6), 665-718. doi:10.1177/1046496417724209
- Norton, W. E., Lungeanu, A., Chambers, D. A., & Contractor, N. (2017). [Mapping the growing discipline of dissemination and implementation science in health](#). *Scientometrics*, 112(3), 1367–1390. doi:10.1007/s11192-017-2455-2.
- Wang, M., Chen, W., Huang, Y., Contractor, N. S. and Fu, Y. (2016). [Modeling customer preferences using multidimensional network analysis in engineering design](#). *Design Science*, 2, 2012-2028. doi:10.1017/dsj.2016.11.
- Pilny, A., Schechter, A., Poole, M. S., & Contractor, N. (2016). [An illustration of the relational event model to analyze group interaction processes](#). *Group Dynamics: Theory, Research, and Practice: Special Issue on Statistical Methods*, 20(3), 181-195. doi:10.1037/gdn0000054
- Ghasemian, F., Zamanifar, K., Ghasem-Aqaei, N., & Contractor, N. (2016). [Toward a better scientific collaboration success prediction model through the feature space expansion](#). *Scientometrics*, 108(2), 777-801. doi: 10.1007/s11192-016-1999-x
- Leenders, R. T. A. J., Contractor, N. S., & DeChurch, L. A. (2016). [Once upon a time: Understanding team processes as relational event networks](#). *Organizational Psychology Review*, 6(1), 92–115. doi: 10.1177/204138661557831
- Zhang, C., Phang, C. W., Zeng, X., Wang, X., Xu, Y., Huang, Y., & Contractor, N. (2015). [Circadian rhythms in socializing propensity](#). *PLoS ONE*, 10(9), e0136325. doi: 10.1371/journal.pone.0136325
- Carter, D. R., Asencio, R., Wax, A., DeChurch, L. A., & Contractor, N. S. (2015). [Little teams, big data: Big data provides new opportunities for teams theory](#). *Industrial and Organizational Psychology*, 8(4), 550-555. doi: 10.1017/iop.2015.82
- Tiropanis, T., Hall, W., Crowcroft, J., Contractor, N., & Tassioulas, L. (2015). [Network science, web science and internet science: Comparing interdisciplinary areas](#). *Communications of the ACM*, 58(8), 76-82. doi:10.1145/2699416
- Foucault Welles, B., & Contractor, N. S. (2015). [Individual motivations and network effects: A multi-level analysis of the structure of online social relationships](#). *Annals of the American Academy of Political and Social Science*, 659, 180-190. doi: 10.1177/0002716214565755
- Carter, D., DeChurch, L. A., Braun, M., & Contractor, N. (2015). [Social network approaches to leadership: An integrative conceptual review](#). *Journal of Applied Psychology*, 100(3), 597. doi:10.1037/a0038922

- Sullivan, S. D., Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2015). [Space, time, and the development of shared leadership networks in multiteam systems](#). *Network Science*, 3(1), 124-155. doi:10.1017/nws.2015.7
- Contractor, N. S., & DeChurch, L. A. (2014). [Integrating social networks and human social motives to achieve social influence at scale](#). *Proceedings of the National Academy of Sciences*, 111(Supplement 4), 13650–13657.
- Foucault Welles, B., Vashevko, A., Bennett, N., & Contractor, N. (2014). [Dynamic models of communication in an online friendship network](#). *Communication Methods and Measures*, 8(4), 223-243. doi:10.1080/19312458.2014.967843
- Lungeanu, A., & Contractor, N. S. (2014). [The effects of diversity and network ties on innovations: The emergence of a new scientific field](#). *American Behavioral Scientist*, 59(5), 548-564. doi:10.1177/0002764214556804
- Foucault Welles, B., Rouse, T., Merrill, N., & Contractor, N. (2014). [Virtually friends: An exploration of friendship claims and expectations in immersive virtual worlds](#). *Journal for Virtual Worlds Research*, 7(2), 1-15. https://doi.org/10.4101/jvwr.v7i2.7024
- Lungeanu, A., Huang, Y., & Contractor, N. S. (2014). [Understanding the assembly of interdisciplinary teams and its impact on performance](#). *Journal of Informetrics*, 8(1), 59–70. doi: 10.1016/j.joi.2013.10.006
- Tiropanis, T., Hall, W., Shadbolt, N., De Roure, D., Contractor, N., & Hendler, J. (2013). [The Web Science Observatory](#). *Intelligent Systems, IEEE*, 28(2), 100–104. doi:10.1109/MIS.2013.50
- Huang, M., Barbour, J., Su, C., & Contractor, N. (2013). [Why do group members provide information to digital knowledge repositories? A multilevel application of transactive memory theory](#). *Journal of the American Society for Information Science and Technology*, 64(3), 540-557. https://doi.org/10.1002/asi.22805
- Contractor, N. (2013). [Some assembly required: Leveraging Web science to understand and enable team assembly](#). *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 371(1987), 20120385–20120385. doi:10.1098/rsta.2012.0385
- Zhu, M., Huang, Y., & Contractor, N. S. (2013). [Motivations for self-assembling into project teams](#). *Social Networks*, 35(2), 251–264. https://doi.org/10.1016/j.socnet.2013.03.001
- Huang, Y., Shen, C., & Contractor, N. (2013) [Distance matters: Exploring proximity and homophily in virtual world networks](#). *Decision Support Systems*, 55(4), 969–977. https://doi.org/10.1016/j.dss.2013.01.006
- Keegan, B., Gergle, D., & Contractor, N. (2013). [Hot off the Wiki: Structures and dynamics of](#)

- [Wikipedia's coverage of breaking news events](#). *American Behavioral Scientist*, 57(5), 595-622. <https://doi.org/10.1177/0002764212469367>
- Contractor, N. S., DeChurch, L. A., Carson, J. B., Carter, D., & Keegan, B. (2012). [The topology of collective leadership](#). *The Leadership Quarterly*, 23(6), 994-1011. <https://doi.org/10.1016/j.leaqua.2012.10.010>
- Contractor, N. S., Whitbred, R. C., Fonti, F., & Steglich, C. (2012). [Understanding the ties that bind: A longitudinal investigation of the evolution of a communication network](#). *Western Journal of Communication*, 76(4), 333-357. doi: 10.1080/10570314.2012.674172
- Schatz, B., Marsh, C., Gustafson, D., Patrick, K., Krishnan, J., Kumar, S., & Contractor, N. (2012). [Research challenges in measuring data for population health to enable predictive modeling for improving healthcare](#). *ACM SIGHIT Record*, 2(2), 36-41. doi: 10.1145/2384556.2384561
- Mathur, S., Poole, M. S., Peña-Mora, F., Hasegawa-Johnson, M., & Contractor, N. (2012). [Detecting interaction links in a collaborating group using manually annotated data](#). *Social Networks*, 34(4), 515-526. <https://doi.org/10.1016/j.socnet.2012.04.002>
- Murase, T., Doty, D., Wax, A., DeChurch, L. A., & Contractor, N. S. (2012). [Teams are changing. time to "think networks."](#) *Industrial and Organizational Psychology: Perspectives on Science & Practice*, 5, 41-44. <https://doi.org/10.1111/j.1754-9434.2011.01402.x>
- van de Wijngaert, L., Bouwman, H., & Contractor, N. (2012). [A network approach toward literature review](#). *Quality & Quantity*, 48(2), 623-643. <https://doi.org/10.1007/s11135-012-9791-3>
- Zhang, Z., Zhang, Z., Jain, R., Zhuang, Y., Contractor, N., ... Hauptmann, A. G. (2012). [Societally connected multimedia across cultures](#). *Journal of Zhejiang University Science C*, 13(12), 875-880. doi:10.1631/jzus.C1200279
- Keegan, B., Ahmad, M. A., Williams, D., Srivastava, J., & Contractor, N. (2011). [What can gold farmers teach us about criminal networks?](#) *XRDS: Crossroads, The ACM Magazine for Students*, 17(3), pp. 11-15. <http://doi.acm.org/10.1145/1925041.1925043>
- Williams, D., Contractor, N., Poole, M. S., Srivastava, J., & Cai, D. (2011). [The virtual worlds exploratorium: Using large-scale data and computational techniques for communication research](#). *Communication Methods and Measures*, 5(2), 163-180. <https://doi.org/10.1080/19312458.2011.568373>
- Wang, J., Huffaker, D. A., Treem, J. W., Fullerton, L., Ahmad, M. A., Williams, D., Poole, M. S., & Contractor, N. (2011). [Focused on the prize: Characteristics of experts in massive multiplayer online games](#). *First Monday*, 16(8). <https://doi.org/10.5210/fm.v16i8.3672>

- Whitbred, R., Fonti, F., Steglich, C., & Contractor, N. (2011). [From microactions to macrostructure and back: A structural approach to the evolution of organizational networks](#). *Human Communication Research*, 37(3), 404-433. <https://doi.org/10.1111/j.1468-2958.2011.01404.x>
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SOFTWARE DEVELOPMENT

NU Team Recommender: Team recommender system for Northwestern University scholars. SONIC Research Group, Northwestern University, 2014-present.

Technical Support Unit Influence Strategy Wizard: Recommender system for scaling up health innovations in Bihar, India. SONIC Research Group, Northwestern University, 2014-present.

My Dream Team: Team Recommender System. SONIC Research Group, Northwestern University, 2013-present.

6DoS: Six Degrees of Separation: Web based game to understand routing of messages via networks. SONIC Research Group, Northwestern University, 2013-present.

VIVO Recommender: Recommending teams for scientific research. SONIC Research Group, Northwestern University, 2012-present

Semantic Recommender: Semantic Web Cyberinfrastructure for Inquiring Knowledge Networks on the Web. SONIC Research Group, Northwestern University, 2011-present

C-IKNOW: Cyberinfrastructure for Inquiring Knowledge Networks on the Web People Recommender system. SONIC Research Group , Northwestern University, 2007-2010.

IKNOW: Inquiring Knowledge Networks on the Web . SONIC Research Group at the National Center for Supercomputing Applications at the University of Illinois at Urbana-Champaign, 1997-2007

Blanche: A computational modeling environment for network evolution. University of Illinois at Urbana-Champaign, 1997-2007

CURRENTLY FUNDED RESEARCH

National Science Foundation: The Next Normal for Teaming: Transitioning Out of COVID-19

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(2021-2024, \$600,000). Principal Investigator

National Science Foundation: Natural experiments with online games: Support, impact and mitigation during the Covid-19 Pandemic (2020-2021, \$196,800). Consultant

National Science Foundation: Teaming in the Time of Covid-19: Understanding how technology affordances can enable collaboration during sudden workplace disruption (2020-2021, \$120,000). Principal Investigator

National Aeronautics and Space Administration: *Measuring and Predicting Performance for Individuals Teams and Systems in Interdependent Crew Tasks MAPPITS ICT* (2020-2021, \$30,000). Principal Investigator

National Aeronautics and Space Administration: Prescriptions Optimally Learned Assessing Risk in Space (2020-2021, \$30,000). Principal Investigator

National Institutes of Health: Simulation Modeling to Understand and Address HIV Disparities in Racial Ethnic and Sexual Minority Populations (2020-2023, \$1,614,060). Co-Principal Investigator

National Science Foundation: Collaborative Research: A Hierarchical Multidimensional Network-based Approach for Multi-Competitor Product Design (2020-2023, \$484,538). Co-Principal Investigator

Defense Advanced Research Projects Agency (DARPA) (via Smart Information Flow Technologies): *SCHNEIDER: System for Counterfactual Human Network Evaluation of Individual Differences, Errors, and Residuals*. (2019-2020, \$159,932). Principal Investigator.

Army Research Laboratory: Macro Signatures of Success in Human Autonomy Teams. (2019-2021, \$1,500,000). Principal Investigator.

National Institutes of Health: *SCISIPBIO: Understanding And Assembling Dream Teams to Conduct Clinical and Translational Science*. (2019-2022, \$997,132). Co-Principal Investigator.

National Science Foundation: *Safe Bets and Risky Propositions Leveraging Rich data to Understand Scientific Diversity, Impact, and Potential of Teams*. (2019-2022, \$699,990). Principal Investigator.

Army Research Laboratory: *Wearable Devices for Monitoring Social Networks*. (2019-2021, \$750,000). Co-Investigator.

National Science Foundation: *Workshop on Human Technology Partnerships and the Changing Nature of Work*. (2019-2020, \$50,000). Principal Investigator.

Army Research Laboratory: *The Signatures of Success in Human-Agent Teams*. (2019-2020, \$139,061). Principal Investigator.

Facebook, Inc: *Isolation and Social Media in - and out of- This World*. (2019-2020, \$50,000). Co-Principal Investigator

National Aeronautics and Space Administration (subcontract from University of Georgia): *FUSION: Facilitating Unified Systems of Interdependent Organizational Networks*. (2018-2021, \$308,049). Co-Investigator.

Defense Advanced Research Projects Agency (DARPA) (via Virginia Polytechnic Institute and State University): *BUZZ: Scalable, Interactive Simulations of Online Social Behavior*. (2017-2021, \$319,986). Principal Investigator

Defense Advanced Research Projects Agency (DARPA) (via Raytheon BBN Technologies): *ACCESS – Agent-based Causal simulator with Cognitive, Environmental, and Social System factors*. (2017-2020, \$302,162). Principal Investigator.

National Institutes of Health (subcontract from University of California, Los Angeles): *Team Dynamics, Networks, and Assembly (Team DNA)*. (2016-2021, \$525,247). Co-Investigator.

National Institutes of Health: *netCanvas: Development, Hardening, and Dissemination of a Software Suite for the Collection of Complex Network and Contextual Data in HIV and Drug Research*. (2016-2021, \$32,023,131). Co-Principal Investigator.

National Aeronautics and Space Administration: *SCALE: Shared Cognitive Architectures for Long-term Exploration*. (2015-2021, NNX15AM26G, \$1,682,829). Co-Principal Investigator.

National Aeronautics and Space Administration: *CREWS: Crew Recommender for Effective Work in Space*. (2015-2020, NNX15AM32G, \$1.05 million). Principal Investigator.

National Aeronautics and Space Administration: *Team Task Switching in Astronaut Crews on the International Space Station: Integrating Multiteam Membership, Multiteam Systems, Multitasking & Multidimensional Networks to Monitor & Enable Functional Work Shifts in Astronaut Crews*. (2015-2020, NNX15AK73G, \$1.05 million). Co-Principal Investigator.

National Institutes of Health: *Multilevel Influences on HIV and Substance use in a YMSM (young men who sleep with men) Cohort - RADAR*. (2014-2020, 1U01DA036939-01, \$8,697,386).

Co-Investigator.

PREVIOUSLY FUNDED RESEARCH

National Aeronautics and Space Administration: *A US-Russian Collaborative Proposal for Data Collection in HERA: The Relationship between Composition, Interpersonal Relations, and Team Effectiveness in Space Crews*. (2016-2019, \$399,989). Co-Principal Investigator.

Army Research Office: *ANN SONIC NICO Workshop on Brain Science and Social Networks*. (2018-2019, \$15,000). Principal Investigator.

Bill & Melinda Gates Foundation: *Novel Approaches to Measuring Demand-side Community Perceptions and Barriers to Family Planning via Social Network Analysis in Kenya* (2015-2018, OPP1135005, \$136,803). Co-Principal Investigator.

National Science Foundation: *CHS: Medium: Collaborative Research: Understanding Online Creative Collaboration over Multidimensional Networks*. (2015-2018, IIS-1514427, \$374,619). Principal Investigator.

Northwestern University Office of the Provost: *Creating Your Dream Team: Using Technology to Form Effective Project Design in STEM (MDT)*. (2017-2018, \$49,988). Principal Investigator.

National Institutes of Health: *Modeling Scientific Workforce Dynamics Using Social Network Analysis*. (2015-2018, U01GM112623-01, \$1.5 million). Co-Principal Investigator.

Army Research Laboratory (subcontract from BBN Technologies): *Integrated Research Center for Network Sciences Collaborative Technology Alliance* (2009-2018, cooperative agreement number W911NF-09-2-0053, \$628,905). Principal Investigator.

National Institutes of Health via UCLA: *Team DNA*. (2016-2017, 1R01GM112938-01, \$122,099.00). Co-Principal Investigator.

National Institutes of Health – National Institute on Drug Abuse (NIDA): *NetCanvas: Development, Hardening, and Dissemination of a Software Suite for the Collection of Complex Network and Contextual Data in HIV and Drug Research* (2016-2017, R01DA042711). Co-Principal Investigator.

Northwestern University Office of the Provost: *Fostering Effective Online Discussion in Higher Education With 'Nebula,' a Graphical Interface for Discussion Boards*. (2016-2017, \$36,980). Co-Principal Investigator.

Army Research Office: *Socio-Cognitive Networks: Theory & Data Driven Approaches for Understanding the Assembly and Interaction Networks of High Performance Teams*.

(2014-2017, W911NF-14-1-0686, \$45,187). Principal Investigator.

National Science Foundation: *Multidimensional Network Analysis for Analyzing and Predicting Complex Customer-Product Relations in Engineering Design*. (2014-2017, CMMI-1436658, \$501,444). Co-Principal Investigator.

National Institutes of Health, National Center for Research Resources: *Annual Science of Team Science Conference* (2011-2017, 5R13TR000046-04, \$50,000). Principal Investigator.

DARPA via Virginia Polytechnic Institute and State University: *Montage: Capturing Collective Identity through Multidisciplinary Modeling and Experimentation* (2016-2018, D17AC00003 01, \$43,658). Co-Principal Investigator.

The National Institutes of Health's National Center for Advancing Translational Sciences (2015-2017, TL1TR001423). Member, NUCATS TL1 Executive Leadership Committee.

National Institutes of Health/NHRR: *Northwestern University Clinical and Translational Sciences Institute (NUCATS)* (2008-2016, \$705,711). Subcontract from Feinberg School of Medicine. Investigator.

National Research Foundation of Korea: *Effects of Intrinsic and Extrinsic Motivation on Flow Experience of Social Network Sites for Seniors and the Moderating Role of Anxiety Attachment*. (2015-2016, NRF-2015S1A5A2A03049328, \$57,005,000 Korean Won). Co-Principal Investigator.

National Science Foundation: *SCC-SBE: Research Coordination Network on Leveraging Computational Social Science for Understanding Virtual Organizations* (2012-2015, OCI-1244747, \$484,971). Principal Investigator.

Army Research Institute: *The Coevolution of Multi-Dimensional Dynamic Networks of Multi-Team Systems Related to Organization Effectiveness: Theory Development and Empirical Tests* (2012-2015, W5J9CQ-12-C-007, \$847,050). Co-Principal Investigator.

National Science Foundation: *SoCS: Leveraging Shared Social Interest in a Content Centric Internet* (2012-2015, CNS-1211375, \$750,000). Co-Principal Investigator.

National Science Foundation: *NetSE: Large: Collaborative Research: Contagion in Large Socio-communication Networks* (2010-2015, CNS-1010904, \$474,711) Principal Investigator.

Virginia Polytechnic Institute and National Institute of General Medical Sciences Prime (Eubank): *Synthetic Information Systems for Better Informing Public Health Policymakers* (2011-2015, 2U01GM070694-09, \$16,780). Investigator.

Bill & Melinda Gates Foundation: *Knowledge Networks for Scaling Up Impact* (2013-2014, 21640

& 1084322, \$997,539). Principal Investigator.

National Science Foundation: *EAGER: Collaborative Research: FLASH! Fueling Learning Alliance in Sustainability in Higher Education: Using social media and networks for science* (2012-2014, 1241324, \$141,944). Principal Investigator.

National Science Foundation: *EAGER: Collaborative Research: Some assembly required: Understanding the Emergence of Teams and Ecosystems of Teams* (2012-2014, 1249137, \$123,847). Principal Investigator.

National Science Foundation: *CDI-Type II: Collaborative Research: Groupscope: Instrumenting Research on Interaction Networks in Complex Social Contexts* (2010-2014, BCS-0940851, \$252,518) Principal Investigator.

National Science Foundation: *Collaborative Research: Coupled Models of Diffusion and Individual Behavior over Extremely Large Social Networks* (2009-2014, 0904356, \$267,201) Principal Investigator.

Army Research Laboratory (subcontract from University of Illinois Urbana-Champaign): *Information Network Academic Research Center: An Integrated Approach towards Information Integration, Modeling, Retrieval, and Discovery* (2009-2014, \$650,002) Investigator with Principal Investigator Jiawei Han.

National Science Foundation: *RAPID: Collaborative Research: 3dWomen: Exploring Three Decades of Women's Groups in Sustainable Development and the Impact of Social Media on Women's Professional Networks* (2012-2013, 1240008, \$98,360). Principal Investigator.

National Institute of Health and National Center for Research Resources: *Multidisciplinary Clinical and Translational Science (MCTS) Program (supplement)* (2011-2013, 5UL1RR025741-04S3 Greenland, \$200,000). Principal Investigator.

Air Force Research Laboratory (subaward from University of Southern California): *The Virtual World Observatory: Identifying Real World (RW) Characteristics from Virtual Behavior* (2009-2013, contract FA8650-10-C-7010, \$513,836) Investigator with Principal Investigator Dmitri Williams.

Oncofertility Consortium through the National Institute of Health (2011). *Oncofertility: The Fertility Preservation for Women* (NIH: 5UL1DE019587), Evaluation Committee.

National Science Foundation: Supplement to *Social Networking Tools to Enable Collaboration in the Tobacco Surveillance, Epidemiology, and Evaluation Network (TSEEN)* (2010-2011, IIS- 0535214, \$150,000). Principal Investigator.

National Science Foundation: *VOSS: Understanding and Enabling Network Dynamics in Virtual*

Communities (2008-2012, IIS-0838564, \$299,269) Co-Principal Investigator, collaborative proposal with Brian Uzzi and Luis Amaral (Northwestern University), and Peter Monge (University of Southern California).

National Science Foundation: *DHB Virtual Worlds: An Exploratorium for Theorizing and Modeling the Dynamics of Group Behavior* (2007-2012, IIS-0841483, \$620,755) Principal Investigator on collaborative proposal with Scott Poole (University of Illinois at Urbana-Champaign), Jaideep Srivastava (University of Minnesota) and Dmitri Williams (University of Southern California).

Global Philanthropy Project: *Understanding and Enabling Networks to Advance the Chicago Climate Action Plan (CCAP)* (2009-2011, \$100,000) Principal Investigator.

The John D. and Catherine T. MacArthur Foundation: *Mapping, Understanding and Enabling the Digital Media Learning (DML) Knowledge Networks: An Exploratory Investigation* (2007-2011, \$140,000) Principal Investigator.

National Science Foundation: *Collaborative Research: Social Networking Tools to Enable Collaboration in the Tobacco Surveillance Epidemiology, and Evaluation Network (TSEEN)* (2007-2010, 0836262, \$575,624) Principal Investigator.

Army Research Institute: *Virtual World Exploratorium* (2008-2010, W91WAW-08-C-0106/P00004, \$923,156) Principal Investigator with Scott Poole (University of Illinois), Jaideep Srivastava (University of Minnesota), and Dmitri Williams (University of Southern California).

National Cancer Institute (subcontract from University of Texas Health Science Center, San Antonio TX): *Analysis, Visualization & Interpretation of the Redes en Accion Cancer Network* (2007-2010, \$166,226) Principal Investigator.

National Science Foundation: *CRI: IAD – A Pressing Need for Observation, Facilitation and Computer Support of Group Interactions for Advancing United States National Priorities – Homeland Security and Economic* (2007-2010, 0709249).

National Science Foundation, ITR: *IT-Based Collaboration Framework for Preparing Against, Responding to, and Recovering from Disasters Involving Critical Physical Infrastructures*, (2004-2010, 0427089, \$2,370,000) Co-Principal Investigator in collaboration with Professors Feniosky Pena-Mora, Gene E. Robinson, and Indranil Gupta (University of Illinois Urbana-Champaign), and Andrea Hollingshead (University of Southern California).

National Cancer Institute: *Population Sciences Grid* (2008-2009, 0836262, \$75,000).

National Science Foundation (subcontract from Purdue University): *Network Recommender System for nanoHUB* (2008-2009, \$50,000).

National Institute of Health (subcontract from University of Texas San Antonio): *Mapping, Understanding and Enabling the Redes en Accion Latino Cancer Network* (2007-2008, \$56,000) Principal Investigator.

National Science Foundation: *C-IKNOW Cyberinfrastructure Tools to Enable Knowledge Network Discovery, Diagnosis and Design* (2007-2009, 0753047, \$199,619) Principal Investigator.

National Science Foundation: *Collaborative Research: DHB Virtual Worlds: An Exploratorium for Theorizing and Modeling the Dynamics of Group Behavior* (2007-2008, 0729505).

National Science Foundation: *Social Networking Tools to Enable Collaboration in the Tobacco Surveillance, Epidemiology, and Evaluation Network (TSEEN)* (2005-2008, IIS- 0535214, \$808,089). Principal Investigator on collaborative proposal with Katy Börner (Indiana University), Tom Finholt (University of Michigan), and Gary Giovino (Roswell Park Cancer Center, Buffalo, NY).

National Cancer Institute (supplement from NCI to NSF): *Tobacco Informatics Grid (TobIG): Development of Prototype to Demonstrate Distributed Collaboration and Data Analysis within the Tobacco Research Community* (2006-2007, IIS-0535214, \$400,000) Principal Investigator.

National Center for Supercomputing Applications: *GroupScope: Instrumenting Research on Interaction of Individuals in Complex Settings* (2006-2007, \$69,347) Principal Investigator on team including Marshall Scott Poole, Feniosky Pena-Mora, Klara Nahrstedt, David Forsyth, and Margaret Fleck.

National Science Foundation: *Collaborative Research: Mapping and Analyzing Emergent Multiorganizational networks in the Hurricane Katrina Response* (2006-2007, SBE-0555115, \$140,000) Principal Investigator on collaborative proposal with Carter Butts (University of California, Irvine).

National Science Foundation: *Instrumenting behaviors and attitudes in virtual worlds* (2006-2007, IIS 0628036, \$155,851) Co-Principal Investigator on collaborative proposal with Dmitri Williams (University of Illinois at Urbana-Champaign) and Dan Hunter (University of Pennsylvania).

National Cancer Institute (subcontract from Battelle Memorial Institute): *Socio-technical Specifications for the Design of a Cyberinfrastructure for a Tobacco Control Informatics Grid* (2005-2006, \$50,000).

National Science Foundation, Workshop on: *The Role of Social Network Research in Enabling Cyberinfrastructure and the Role of Cyberinfrastructure in Enabling Social Network* held November 3-5, 2005 at the National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign, (2005-2006, SCI-0533892 , \$50,000) Principal Investigator with Co-Principal Investigator Katy Börner (Indiana University).

National Science Foundation: *2006 International Workshop and Conference on Network Science*, held May 2006 at Indiana University, Bloomington, IN. (2005-2007, SES-0532387, \$77,714) Co-Principal Investigator with Laszlo Barabasi (University of Notre Dame), Katy Börner, Alex Vespignani, and Stan Wasserman (Indiana University).

Rockefeller Foundation: *Mapping cultural and network assets in three Chicago communities* (2005, CC 035, \$100,000) Principal Investigator in collaboration with Dr. Alaka Wali (Field Museum, Chicago).

University of Illinois Food Security Initiative: *A Social Network Perspective to Analyze Food Security* (2003-2005, \$60,000) Principal Investigator.

National Science Foundation: *Digital Government: Workshop on US-Hungarian Research Collaborations to Address the Challenges of 21st Century Society*. (2003-2005, 0341928, \$97,702) Principal Investigator on collaborative proposal with Anthony Stefanidis (University of Maine).

University of Illinois Silicon, Carbon, Culture Initiative: *Walking through Knowledge Networks* (2003, \$30,000) Principal Investigator on collaborative proposal with Professors Narendra Ahuja and Michael Twidale.

National Science Foundation: *SGER: Knowledge Networks and Emerging Heterarchies in Rebuilding New York* (2002-2003, 0233449, \$42,908) Principal Investigator on collaborative proposal with David Stark (Columbia University).

National Aeronautics and Space Administration: *Modeling 21st Century Project Teams: Integrating Workflow and Knowledge Network Models of Organizing* (2002-2003, No. 02-NASA-C-1513, \$100,000) Principal Investigator on collaborative proposal with Ray Levitt (Stanford University).

European Union Information Society & Technology Program (subcontract from LUISS University, Rome): *Developing web-based knowledge asset mapping tools to study the use of communication technologies in organizations* (2002-2003, €7000) Principal Investigator.

Center for Human Resource Management: *Using Technologies to Support and Enhance Organizational Knowledge Networks* (2002-2003, \$10,000) Principal Investigator with Andrea Hollingshead.

Hewlett Packard Mobile Initiative Grant Program: *Using mobile technologies* (2001-2002, \$140,760) Investigator with Principal Investigator Win-Mei W. Hwu.

National Science Foundation: *Co-evolution of Knowledge Networks and 21st Century Organizational Forms: Computational Modeling and Empirical Testing* (1999-2003, 9980109, \$1,500,000) Principal Investigator.

UIUC Chief Information Officer: Multi-university course on Communication Technologies and New Forms of Organizing, (1999-2000, \$10,000) Principal Investigator.

UIUC Educational Technologies Board: *Virtual Digital Portfolio* (1998-1999, \$6,000) Principal Investigator.

Committee on Institutional Cooperation: *A Curriculum in Communication and the Global Workplace* (1998-1999, \$10,000) Principal Investigator.

Steelcase, Inc.: *The Effects of Cooperative and Competitive Physical Environments and Communication on Negotiation Outcomes in Ultimatum and Communication Games* (1996-1998, \$96,586) Consultant with Principal Investigators: Peter Monge, Janet Fulk, and Arthur Baskin.

National Science Foundation: *The Sustainable Management of Civil Infrastructure: A Methodology and Testbed to Bridge Information Technology and Application* (1994-1999, ECS-9422730, \$1,268,403) Co-Principal Investigator.

Advanced Learning Technologies in Higher Education, University of Illinois: *A Curriculum in Organizational Communication and Technology Applications of Advanced Collaboration Tools to Support Cooperative Learning and Shared Instruction in Communication Studies*, (1997, \$52,600) Principal Investigator with Barbara O'Keefe.

National Center for Supercomputing Applications, Software Development Group: *Development of a Collaboration Workbench for the NCSA Software Development Group* (1996-1997, \$49,722) Principal Investigator with Barbara O'Keefe and Patricia Jones.

Machine Tool Agile Manufacturing Research Institute: *Evaluation of a virtual organization* (1996-1997, \$35,000) Principal Investigator with Barbara O'Keefe and Patricia Jones.

Annenberg Center for Communication: *Interactive Communication and Computing for Virtual Work Communities* (1995-1997, \$160,970) Co-Principal Investigator.

UIUC Educational Technologies Board: *Support for Asynchronous Learning Networks in Speech Communication* (1995-1996, \$5,540) Co-Principal Investigator.

Sloan Center for Asynchronous Learning Environments: *Collaboration Support for Senior Design Teams in Engineering*, (1995-1996, \$56,202) Principal Investigator with Peter DeLisle, Elizabeth Faye, Barbara O'Keefe.

U.S. Department of Education: *Adaptive Network Library Interface* (1991, R197D10033, \$6,000) Co-Principal Investigator.

Apple Computer's Advanced Technology Group: *Modeling the Use of Groupware as a*

Self-organizing System (1990, \$205,000) Principal Investigator.

KEYNOTE ADDRESSES AND DISTINGUISHED LECTURES

2020

Contractor, N. (October 24, 2020). Teaming in the Time of Covid-19. *Keynote address at the ICA-Affiliated New Media International (Virtual) Conference.*

Contractor, N. (February 13, 2020). People Analytics: Using Digital Exhaust to Leverage Network Insights in the Workplace. *Keynote address at [Workshop on Web Science for Development at The International Institute of Information Technology](#), Bangalore, India.*

2019

Contractor, N. (December 9, 2019). People Analytics: Using Digital Exhaust to Leverage Network Insights in the Workplace. *Keynote address at the [International conference on "Network Science in Economics and Finance"](#), Ahmedabad, India.*

Contractor, N. (November 23, 2019). Keynote address at the [2019 Annual V2V Summit](#), Chicago, IL.

Contractor, N. (October 17, 2019). Trust and Artificial Intelligence. Keynote address at the National Intelligence Science and Technology Committee (NISTC) meeting, Washington, DC.

Contractor, N. (October 8, 2019). Understanding and Enabling the Future of Work. *Keynote address at [The Connected Commons](#), Williamsburg, VA.*

Contractor, N. (September 30, 2019). A Decadal Survey of the Behavioral and Social Sciences: A Research Agenda for Advancing Intelligence Analysis. Keynote address at the SBS Decadal Survey Report Launch, Washington, DC.

Contractor, N. (August 26, 2019). Understanding and Enabling the Future of Work. *Keynote address at the 2019 International Conference of Social Computing*, Beijing, China.

Contractor, N. (August 12, 2019). People Analytics: Understanding and Enabling the Future of Work. *Keynote address at the [Organizational Communication & Information Systems \(OCIS\) plenary session at the 79th Annual Meeting of the Academy of Management](#), Boston, MA, USA.*

Contractor, N. (June 18, 2019). Decadal Survey Vision. *Keynote address at the Social Science Research & Intelligence Workshop at the Academy of the Social Science in Australia*, Canberra, Australia.

Contractor, N. (February 26, 2019). People Analytics: Understanding and Enabling the Future of Work. *Keynote address at the Robert Bosch Center for Data Science and Artificial Intelligence - Webs Science Symposium at the Indian Institute of Technology Madras, Chennai, India.*

Contractor, N. (January 4, 2019). Relational Analytics: Transforming the future of work. *Keynote address at the International School and Conference on Network Science (NetSci-X), Santiago, Chile.*

2018

Contractor, N. (February 16, 2018). Combining Big Data and Conventional Methods. *Keynote address at the Computational Communication Science conference, Hanover, Germany.*

2017

Contractor, N. (October 10, 2017). *Welcome and open plenary speaker at the Atlanta Conference on Science and Innovation Policy, Atlanta, GA.*

Contractor, N. (July 1, 2017). Leveraging Computational Social Science to address Grand Societal Challenges. *Keynote address at the Web Science Summer School, St. Petersburg, Russia.*

Contractor, N. (June 15, 2017). Some Assembly Required: Organizing in the 21st Century. *Plenary speaker in a session titled Organizing and Organizations, at the Collective Intelligence Conference, New York University's Tandon School of Engineering, Brooklyn, NY.*

Contractor, N. (April 26, 2017). Building and Leveraging Powerful Social Networks. *Keynote address at 5th Annual Network Leadership Training Academy. Center on Network Science at the University of Colorado, Denver, CO.*

Contractor, N. (March 13, 2017). Creating Effective Teams. *Keynote address at "Assembly required. Organizing in the 21st century". Center for Technological and Pedagogical Innovation (CITEP) conference at the University of Buenos Aires, Buenos Aires, Argentina.*

2016

Contractor, N. (December 1, 2016). Leveraging Computational Social Science to Address Grand Societal Challenges. *Keynote address at the 3rd GESIS Computational Social Science Winter Symposium, Cologne, Germany.*

Contractor, N. (June 30, 2016). Leveraging Web/Internet/Network Sciences (WINS) to address Grand Societal Challenges. *Keynote address at the Web Science Summer Institute, Koblenz, Germany.*

Contractor, N. (May 16, 2016). Building and Leveraging Powerful Social Networks. *Keynote address at the University of Colorado, Denver's 4th Annual Network Leadership Training Academy*, Denver, CO.

Contractor, N. (March 28, 2016). Leveraging Computational Social Science to address Grand Societal Challenges. *Distinguished Lecture in the Educational Testing Services (ETS) Seminar Series*, Princeton, NJ.

Contractor, N. (March 13, 2016). The Science of Team Science. *Keynote address at the "Intra- and interorganizational conditions for interorganizational research cooperation."* University of Bremen, in collaboration with the MARUM - Center for Marine Environmental Sciences at Bremen University

Contractor, N. (March 4, 2016). Leveraging Computational Social Science to address Grand Societal Challenges. *Lambda Pi Eta Choice Scholar Lecture at the University of California Santa Barbara*, Santa Barbara, CA.

Contractor, N. (February 15, 2016). Team Science for the 21st Century. *Evening Speaker, 3rd Kavli Symposium on Science Journalism*, Washington, DC.

Contractor, N. (February 6, 2016). Reflections: Lessons learned. *Plenary Speaker, 22nd Annual Organization Science Winter Conference: Innovations & Organizations*, Park City, UT.

2015

Contractor, N. (September 24, 2015). Leveraging Computational Social Science to Address Grand Societal Challenges. *Kameshwar C. Wali Lecture in the Sciences & Humanities at Syracuse University*, Syracuse, NY.

Contractor, N. (August 27, 2015). Leveraging Computational Social Science to address Grand Societal Challenges. *Keynote address at the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, Paris, France.

Contractor, N. (June 18, 2015). Leveraging Computational Social Science to address Grand Societal Challenges. *Distinguished Lecture at North Carolina State University's Laboratory for Analytic Sciences*, Raleigh, NC.

Contractor, N. (June 15, 2015). Data, Network, and Crowd Science: Laura Norén, Noshir Contractor, and Wei Wang Discuss How Social Data Is Changing Network and Communication Science with Online Collaborative Methods. *Speaker at the Big Boulder Initiative*, Boulder, CO.

Contractor, N. (June 9, 2015). Leveraging Computational Social Science to address Grand Societal Challenges. *Distinguished Lecture at the Vienna University of Technology's PhD School Series "Current Trends in Computer Science"*, Vienna, Austria.

Contractor, N. (June 2, 2015). Leveraging Computational Social Science to address Grand Societal Challenges. *Keynote at NetSci Computational Social Science Conference*, Zaragoza, Spain.

Contractor, N. (May 28, 2015). Leveraging WINS (Web/Internet/Network Science) to address Societal Challenges. *Keynote at the 2nd International Conference on Internet Science*, Brussels, Belgium.

Contractor, N. (April 29, 2015). Leveraging Network Science to address Great Societal Challenges. *Keynote at the ARS' 15 International Workshop "Large Networks and Big Data"*, Anacapri, Italy.

Contractor, N. (March 10, 2015). Leveraging Computational Social Science to address Grand Societal Challenges. *Distinguished Lecture at the Machine Learning and Data Analytics Symposium*, Doha, Qatar.

Contractor, N. (February 22, 2015). The Science of Team Science. *Keynote address at the Network for Pancreatic Organ Donors with Diabetes Annual Meeting*, St. Pete Beach, FL.

Contractor, N. (February 20, 2015). Building Powerful Personal and Professional Networks. *Distinguished Lecture at the Chicago Collaboration for Women in STEM*, Naperville, IL.

2014

Contractor, N. (October 22, 2014). Leveraging Computational (e)Social Science to address Grand Societal Challenges. *Keynote address at the 10th IEEE International Conference on eScience*, Guarujá, Sao Paulo, Brazil.

Contractor, N. (September 5, 2014). Leveraging Network Science to address grand societal challenges. *Inaugural lecture of the Elihu Katz Colloquia on Communication and Media Studies*. Annenberg School for Communication, University of Pennsylvania.

Contractor, N. (August 4, 2014). Toward a Network Science of Digital Data in Organizations. *Plenary Speaker, Communication and Information Systems Division, Academy of Management*, Philadelphia.

2013

Contractor, N. (December 13, 2013). Some assembly required: Organizing in the 21st century. *Keynote at the 3rd Indian Academy of Management Conference*, Indian Institute of Management, Ahmedabad, India.

Contractor, N. (October 19, 2013). Can big data motivate new theories & methods? *Plenary Speaker, 2013 International Conference on Advanced Media Technologies and Education*

(AMTE 2013), Shanghai.

Contractor, N. (October 1, 2013). Some assembly required: Organizing in the 21st Century. *Keynote presentation at the 14th IFIP Working Conference on Virtual Enterprise PRO-VE'13* in Dresden, Germany.

Contractor, N. (September 23, 2013). Leveraging social networks for science communication. *Plenary speaker at the National Academy of Sciences' Arthur M. Sackler colloquium on the Science of Science Communication II.*

Contractor, N. (September 6, 2013). Some assembly required: Organizing in the 21st Century. *Keynote at the 2013 International Cyber Security Strategy Congress*, Leuven, Belgium.

Contractor, N. (August 27, 2013). Some assembly required: Organizing in the 21st Century. *Opening keynote address at the 11th International Conference on Business Process Management*, Beijing.

Contractor, N. (July 26, 2013). Some assembly required: Organizing in the 21st Century. *Closing keynote address at the 2013 Big Ten Development Conference*, Evanston, IL.

Contractor, N. (June 6, 2013). Some assembly required: Organizing in the 21st Century. *Keynote address at the International School and Conference on Network Science*, Copenhagen.

2012

Contractor, N. (December 16, 2012). Some assembly required: Organizing in the 21st Century. *Keynote address at the 2012 ASE/IEEE International Conference on Social Informatics* in Washington DC.

Contractor, N. (November 16, 2012) Some assembly required: Organizing in the 21st Century. *Keynote at the 1st China National Conference on Social Computing (NCSC 2012)* in Beijing.

Contractor, N. (November 9, 2012) The Future of Team Science. *Keynote address at the Dr. Harold Burdette Annual Fall conference on Team Science: History, Theory, & Concept*, Indiana University-Purdue University Indianapolis.

Contractor, N. (October 28, 2012). The assembly of multi-team systems. *Dinner keynote at the Advancing the Science of Multiteam Systems meeting* in Varenna, Italy.

Contractor, N. (October 26, 2012). Some assembly required: Organizing in the 21st Century. *Opening keynote at the 1st Michigan State University Cyberinfrastructure (CI) Days conference*. East Lansing, MI.

Contractor, N. (September 24, 2012). Some assembly required: Organizing in the 21st Century. *Opening plenary address at HUBUB 2012 the annual HubZero Conference*, Indianapolis, IN.

Contractor, N. (September 10, 2012). Some assembly required: Organizing in the 21st Century. *Keynote address at the Digital Research 2012 conference*, Oxford University, Oxford, UK.

Contractor, N. (April 26, 2012). Some assembly required: Organizing in the 21st century. *Plenary address at Society for Industrial and Applied Mathematics (SIAM) International Conference on Data Mining*. Anaheim, CA.

Contractor, N. (April 5, 2012). Some assembly required: Organizing in the 21st Century. *Keynote address at Crossroads Seminar Series*, George Washington University, Washington, DC.

2011

Contractor, N. (October 24, 2011). From Understanding to Enabling Networks: Using Web Science to Enhance Recommender Systems. *Keynote address at the 5th ACM Conference on Recommender Systems*, Chicago, IL.

Contractor, N. (October 11, 2011). Understanding and Enabling Collaboration in 21st Century Teams. *Plenary address at CIC CIO Tech Forum*, University of Illinois at Urbana-Champaign, Champaign, Illinois.

Contractor, N. (October 7, 2011). Using Web Science to Understand and Enable 21st Century Multidimensional Networks. *Keynote address at 3rd International Conference on Social Informatics*, Singapore.

Contractor, N. (June 8, 2011). From disasters to WoW: Using web science to understand and enable 21st century multidimensional networks. *Keynote address at 22nd annual ACM conference on hypertext and hypermedia*, Eindhoven, The Netherlands.

Contractor, N. (May 20-21, 2011). Social and knowledge network-building to advance global health decision-making. *Keynote lecture at Advancing Global Health Decision-Making Conference*, Rutgers University, New Brunswick, NJ.

Contractor, N. (May 16-17, 2011). Enabling and understanding networks in virtual organizations. *Keynote address at National Science Foundation, "Toward a Science of Virtual Organizations"* University of Central Florida, Orlando, FL

Contractor, N. (January 24, 2011). *Understanding and Enabling Networks*. *Keynote at Etmaalvoor de Communicatiewetenschap*, University of Twente, Enschede, Netherlands.

2010

Contractor, N. (Aug 25, 2010). Using web science to understand and enable society. *Keynote address at the Inauguration of the Brazilian Institute for Web Science*, Rio de Janeiro, Brazil.

Contractor, N. (October 6, 2010). Using web science to understand and enable society. *Keynote address at the conference*, World Wide Consortium (W3C), Belo Horizonte, Brazil.

Contractor, N. (September 13, 2010). Some assembly required: Understanding and enabling team assembly. *Honorary Professor Lecture, Fudan University's School of Management*, Shanghai, China.

Contractor, N. (August 21, 2010). Some assembly required: Understanding and enabling team assembly. *Keynote address at 2010 IEEE Second International Conference on Social Computing (SocialCom)*, Minneapolis, MN.

Contractor, N. (August 12, 2010). Understanding and enabling team science. *Opening keynote at the First Annual National VIVO Conference: Enabling National Networking of Scientists*, New York, NY.

Contractor, N. (July 21-24, 2010). Some assembly required: Understanding and enabling team assembly. Keynote address at the GESIS 50th anniversary celebration – Leibniz -Institut für Sozialwissenschaften Institute Day, Cologne, Germany.

Contractor, N. (June 9-11, 2010). Using network science to understand and enable team assembly. *Keynote address at Lausanne Workshop on Multi-Disciplinary Approach to Complexity, Networks, & Geosimulations*, University of Lausanne, Lausanne, Switzerland.

Contractor, N. (June 1, 2010). Some assembly required: Leveraging web science to understand and enable team assembly. *Keynote address at Extended Semantic Web Conference - ESWC 2010*, Heraklion, Greece.

Contractor, N. (March 31, 2010). Computational modeling to advance theory construction in the social science. *Keynote address at the 2010 International Conference on Social Computing, Behavioral Modeling, and Prediction*, Bethesda, MD.

2009

Contractor, N. (November 12, 2009). Leveraging powerful networks to address health challenges. *Keynote address at the Young Adult Alliance, Building bridges and collaborations* annual meeting, Lance Armstrong Foundation, Austin, TX.

Contractor, N. (October 24, 2009). Understanding and enabling team assembly. *Plenary speaker at the International National Science Foundation Workshop on Connected Multimedia*, Hangzhou, China.

Contractor, N. (April 25, 2009). Understanding and enabling team assembly. *Closing keynote at the Annual Meeting of the Society of Behavioral Medicine*, Montreal, Canada.

Contractor, N. (April 24, 2009). Understanding and enabling team assembly. *Invited plenary speaker, Studying Society in a Digital World*, Princeton University, Princeton, NJ.

Contractor, N. (March 24, 2009). *Global Technologies and Networked Communities*. *Opening keynote speaker*, Ceremony of the NU-Qatar campus, Doha, Qatar.

Contractor, N. (March 20, 2009). Leveraging web science to understand and enable society. *Keynote address at the 1st Web Science conference: Celebrating the 20th anniversary of the Web*, Athens, Greece.

Contractor, N. (February 2, 2009). Understanding and enabling networks to advance engineering education. *Keynote address at Annual National Science Foundation Engineering Education Awardees Conference*, Reston, VA.

2008

Contractor, N. (November 6, 2008). Using networks to mobilize for global events. *Keynote speaker at Milan World Expo 2015 launch*, Milan, Italy.

2007

Contractor, N. (2007) *Keynote address, Australian National Digital Collections Conference*.

2006

Contractor, N. (June 29, 2006). From Disasters to WoW: Enabling Communities with Cyberinfrastructure. *Keynote address at the 2nd International e-Social Science Conference*, Manchester, UK.

Contractor, N. (May 1, 2006). From Disasters to WoW: Enabling Communities with Cyberinfrastructure. *Van Zelst Distinguished Lecture*, Northwestern University, Evanston, IL.

Contractor, N. (February 2, 2006). From Disasters to WoW: Enabling Communities with Cyberinfrastructure. *Walter Fisher Distinguished Lecture*, Annenberg School of Communication, USC, Los Angeles, CA.

2005

Contractor, N. (August 16, 2005). Social Networks and Distributed Communities of Practice. *Keynote address at Workshop on Sustaining Distributed Communities of Practice* at the International Centre for Governance and Development, University of Saskatchewan,

Saskatoon, Canada.

Contractor, N. (June 14, 2005). Socio-technical challenges in designing 21st cyberinfrastructure to enable networks in communities. *Keynote address at the 2nd International Communities & Technologies conference*, Milan, Italy.

Contractor, N. (March 28, 2005). *Co-evolution of knowledge networks in 21st century organizational forms*. 15th Annual Wayne Thompson Distinguished Lecture at Western Illinois University, Macomb, IL.

Contractor, N. (March 14, 2005). ICT support in emergency management. *Keynote address at the eGovernment der Oesterreichischen Computer Gesellschaft conference*, Vienna, Austria.

2004

Contractor, N. (November 24, 2004). *Co-evolution of knowledge networks in 21st century organizational forms*. Visiting Professor Distinguished Lecture, University of Science and Technology of China, Hefei, China.

Contractor, N. (May 18, 2004). *Coevolution of knowledge networks and 21st century organizational forms*. [Plenary lecture at the 2004 Understanding Complex Systems: Networks conference](#), Urbana, IL.

Contractor, N. (April 30, 2004). Designing knowledge networks for organizational change. *Keynote speaker at the "Network of Networks," National Institutes of Health*, Rockville, MD.

2003

Contractor, N. (November 14, 2003). Emergence of Communication Networks in the 21st Century. *Keynote speaker at the Inauguration of CITÉ de l'Université de Montréal - Interdisciplinary Research Centre on Emerging Technologies* at the University of Montreal, Montreal, Canada.

Contractor, N. (October 17, 2003). Communication Technology in Organizations. *Distinguished lecture at Università Cattolica del Sacro Cuore*, Milan, Italy.

Contractor, N. (June 11, 2003). Co-evolution of Multi-dimensional Networks. *Keynote address at Multi-level Network Analysis of the co-operation between firms*, University of Surrey, Surrey, United

2002

Contractor, N. (April 22, 2002). The power of the network: Technology and new organizational

forms. *Keynote address at the National Laboratory of Tourism and e-commerce Forum on Technology and Change*, Urbana, IL.

2001

Contractor, N. (May 2, 2001). Collaborative knowledge in the e-Economy. *Keynote address to Workshop on Collaborating in the e-Economy: Legacies, Practices, and Prospects*, University of Technology, Sydney, Australia.

Contractor, N. (April, 2001). The use of technologies to support and reconfigure Human Resource functions in 21st century organizational forms. *Keynote speaker at the Spring Roundtable on Human Resource Management and the Web: Evolution or Revolution?* Center for Human Resource Management, Oak Brook, IL.

2000

Contractor, N. (August, 2000). Communication through knowledge networks and the future of organizational structures. *Keynote address, Association of Indiana Convention and Visitors Bureau 2000 Annual Educational Conference*, Merrillville, IN.

Contractor, N. (March 2000). Studying and using communication networks in the 21st century. *Keynote address at the Workshop for Network of Communication Researchers in Thailand*, Chulalongkon University, Bangkok, Thailand.

Contractor, N. (February, 2000). Emergence of communication networks: A self-organizing systems perspective. *Keynote address at the Finnish Speech Communication Association Conference*, Helsinki, Finland.

1999

Contractor, N. (July, 1999). Social capital and knowledge capital in network forms of organizing. *Keynote address at workshop on Laboratorio di Knowledge Management: Il contributo delle tecnologie al knowledge management organized by Istituto RSO* (Institute for Action Research on Organizations and Systems). Sede Fiat, Centro Incontini, Marentino, Torino, Italy.

Contractor, N. (June, 1999). Using technologies to build productive relationships. *Keynote address, McKinsey & Co.'s "Mini-Oxford."* British Library Conference Centre, London.

Contractor, N. (April, 1999). Self-organizing systems research in the social sciences. *Keynote address, Texas Conference on Organizations*, Kerrsville, TX.

Contractor, N. (February, 1999). Communication skills in the 21st century. *Keynote address, The Communication Conference: Setting the Standards for the 21st Century*, hosted by McKinsey & Co.'s Global Client Communications Practice, Berlin, Germany.

INVITED COLLOQUIA/LECTURES

- Contractor, N. (2021, January). Teaming in the time of COVID-19: What Astronauts can teach us about working together. Speaker at Midday@McCormick, Virtual Meeting.
- Contractor, N. (2020, December). Understanding Consumer Behavior in Digital Environments Panel. Speaker at the Digital Marketing and Computer Science Workshop - Northwestern University and Adobe Research, Virtual Workshop.
- Contractor, N. (2020, November). Using Digital Traces to Leverage Network Insights During COVID-19 Today - and in Space in the Future. Speaker at the Virtual Brown Bag Series Department of Organization and Human Resources, School of Management, University of Buffalo, Buffalo, NY.
- Contractor, N. (2020, November). [People Analytics: Using Digital Exhaust from the Web to Leverage Network Insights in the Workplace](#). Speaker at Global HR Forum 2020, Grand Walkerhill Seoul, Virtual Meeting.
- Contractor, N. & DeChurch, L.A. (2020, October). [Teaming in the Time of Covid-19: Reconfiguration of Workplace Communication Networks](#). Speaker at the Interdisciplinary Network for Group Research 2020, Virtual Meeting.
- Contractor, N. & DeChurch, L.A. (2020, July). [Teaming in a Virtual World: What Network Science and Research on Astronauts Can Teach Us About Working Together When We Are Apart](#). Speaker at Northwestern Kellogg School of Management Webinar, Northwestern University, Evanston, IL.
- Contractor, N. (2020, July). Understanding and Leveraging Networks. Speaker at Master of Science (MSC) in Communication program Webinar, Northwestern University, Evanston, IL.
- Contractor, N. (2020, May). [\(Re-\)pairing Teams for the Moon](#). Speaker at MORS Brownbag Series, Northwestern University, Evanston, IL.
- Contractor, N. (2020, May). [Teaming in the Time of COVID-19: What Astronauts Can Teach us About Working Together](#), online lecture for [Northwestern Emeriti Organization](#)
- Contractor, N. (2020, February). Some Assembly Required: Organizing in the 21st century. University of Santa Barbara, Santa Barbara, CA.
- Contractor, N. (2019, September). Employee Networks and Retail Management. [Roundtable discussion at Santa Fe Institute](#), San Francisco, CA.
- Contractor, N. (2019, May). A Decadal Survey of the Behavioral and Social Sciences: A Research

Agenda for Advancing Intelligence Analysis. Panelist at the *Advisory Committee (AC) to the Directors for Social, Behavioral, and Economic Sciences (SBE) National Science Foundation*, Alexandria, VA.

Contractor, N. (2019, April). People Analytics: Understanding and Enabling the Future of Work. Speaker at *Northeastern University's Network Science Institute*, Boston, MA.

Contractor, N. (2019, March). Leveraging the Next Decade of Computational Social Science to Address Grand Societal Challenges. Speaker at *University of Michigan's Survey Research Center (SRC) Seminar Series*, Ann Arbor, MI.

Contractor, N. (2019, January). Avances y proyecciones de Computational Social Sciences. Presenter at the *Universidad del Desarrollo Facultad de Gobierno*, Santiago, Chile.

Contractor, N. (2018, November). Complementarity of the Network Sciences: distinctions, tensions and synergies across SNA, NS and the other system sciences. Panel member at the *North American Regional Social Networks (NASN) Conference of the International Network for Social Network Analysis (INSNA)*, Washington, D.C.

Contractor, N. (November 10, 2018). Pursuing Grant-Funded Research in Communication: Challenges and Opportunities across the Discipline. *Session speaker for the Research Council Panel at the National Communication Association Convention*, Salt Lake City, UT.

Contractor, N. (November 10, 2018). Scholarly Recess: Professional Development for Students and Junior Scholars. *Session speaker for the Group Communication Division at the National Communication Association Convention*, Salt Lake City, UT.

Contractor, N. (October 17, 2018). Social isolation: A challenge in and out of this world. *Session speaker at Amazon's All Boats Rise? Social Capital, Promise and Peril, session: No One is an (I)Land*, Seattle, WA.

Contractor, N. (October 18, 2018). Inhaling digital exhaust data from Enterprise Social media to understand and enable teaming. Presentation at *Inaugural Case Workshop on Digital Innovation, Case Western Reserve University*, Cleveland, OH.

Contractor, N. (May 21, 2018). *Some Assembly Required: Teaming in the 21st Century*. Presentation at *Computational Social Science Luncheon*, Northwestern University, Evanston, IL.

DeChurch, L. A., & Contractor, N. S. (April 20, 2018). Deep space teamwork. Presentation at *COMMFEST2018*, Northwestern University, Evanston, IL.

Contractor, N. (April 16, 2018). Leveraging Computational Social Science to Address Grand Societal Challenges. *Northwestern University IPR Colloquium*, Evanston, IL.

Contractor, N. (October 27, 2017). Leveraging Computational Social Science to Address Grand Societal Challenges. *Case Western Weatherhead School of Management's Interdepartmental Research Seminar (jointly sponsored by Design & Innovation and Organizational Behavior)*, Cleveland, OH.

Contractor, N. (October 18, 2017). Some assembly required: Leveraging computational social science to understand and enable team assembly. *Invited lecture at Sciences Po organized by the Centre de Sociologie des Organisations*, Paris, France.

Contractor, N. (May 18, 2017). [Leveraging Computational Social Science to Address Grand Societal Challenges](#). *Gerald P. Mohrmann Memorial Lecture at the Institute for Social Sciences*, UC Davis, Sacramento, CA.

Contractor, N. (February 21, 2017). [Testing Multitheoretical, Multilevel Hypotheses about Networks](#). *Prevention Science Methodology Group (PSMG) at the Center for Prevention Implementation Methodology*, Feinberg school of medicine, Northwestern University, IL.

Contractor, N. (February 13, 2017). Bridging the Boundary, while Minding the Seams: Boundary Propensities in Multiteam Systems. *Center for Work, Technology, and Organization, Management Science & Engineering*, Stanford University, CA.

Contractor, N. (September 9, 2016). Leveraging Computational Social Science to Address Grand Societal Challenges. *Department of Computer Science and Automation Seminar Series*. Indian Institute of Science, Bangalore, India.

Contractor, N. (April 27, 2016). Potenciando la Ciencia de Redes para abordar los grandes retos sociales. *Programa La UBA para el Siglo XXI en la Universidad de Buenos Aires*, Buenos Aires, Argentina.

Contractor, N. (April 13, 2016). Some Assembly Required: Organizing in the 21st Century. *Computer Science Research Group Talk at the University of California Santa Barbara*, Santa Barbara, CA.

Contractor, N. (January 15, 2016). Leveraging Network Science to Address Grand Societal Challenges. *Interdisciplinary Committee on Organizational Studies (ICOS) & Digital Future Lecture Series at the University of Michigan*, Ann Arbor, MI.

Contractor, N. (October 26, 2015). Some Assembly Required: Organizing in the 21st Century. *Clinical and Translational Science Talk at the University of Florida*, Gainesville, FL.

Contractor, N. (July 9, 2015). Leveraging Computational Social Science to address grand societal challenges. *Vienna Summer School on Digital Humanities*, Vienna University of Technology. Vienna, Austria.

Contractor, N. (Feb 27, 2015). Using computational social science to address grand societal

challenges. *Brown bag presentation at the Northwestern University's Office for Sponsored Research staff meeting*, Evanston, IL.

Contractor, N. (October 15, 2014). Leveraging Computational Social Science to address grand societal challenges. *Information Science Colloquium Series co-sponsored by Yahoo!* Cornell University, Ithaca, NY.

Contractor, N. (August 15, 2014). Leveraging Computational Social Science to address grand societal challenges. *New Computational Sociology Conference*, Stanford University. Palo Alto, CA.

Contractor, N. (April 4, 2014). Leveraging Computational Social Science to address grand societal challenges. *Department of Communication*, University of California, Santa Barbara.

Contractor, N. (March 3, 2014). Leveraging Computational Social Science to address grand societal challenges. *Annenberg Research Seminar*. Annenberg School for Communication & Journalism, University of Southern California, Los Angeles.

Contractor, N. (February 27, 2014). Some assembly required: Organizing in the 21st century. *Physics and Astronomy Complex Systems Seminar Series*, Northwestern University

Contractor, N. (February 17, 2014). Utilizing the Science of Social Networks to Increase Public Understanding. *Ready.Set.Go: Turning Great Researchers into Great Communicators* seminar series, Northwestern University.

Contractor, N. (December 10, 2013). Some assembly required: Organizing in the 21st century. *Faculty of Management Studies, Higher School of Economics Distinguished Lecture Series*, Moscow, Russia.

Contractor, N. (December 9, 2013). Some assembly required: Organizing in the 21st century. *Internet Studies (LINIS) and the Sociology of Education and Science Laboratory (SLON) Distinguished Lecture Series*, Higher School of Economics, St. Petersburg, Russia.

Contractor, N. (November 18, 2013). Scholarship in team science. *SINAInnovations: Leading a New Era of Discovery*. Icahn School of Medicine at Mount Sinai, New York.

Contractor, N. (November 14, 2013). Networks and networkds. Forum on computer science everywhere: Exploring collaborations between computer science and other disciplines, McCormick School of Engineering, Northwestern University.

Contractor, N. (October 30, 2013). Some assembly required: Organizing in the 21st Century. Featured speaker at *Northwestern University Transportation Center's Business Advisory Council (BAC)* meeting.

- Contractor, N. (February 8, 2013). *Some assembly required: Organizing in the 21st century*. Kellogg Attitudes Motivation and Processing (KAMP) Speaker Series, Kellogg School of Management, Northwestern University.
- Contractor, N. (December 6, 2012). *Some assembly required: Organizing in the 21st century*. Seminar series in the Department of Informatics at the University of Zurich.
- Contractor, N. (December 2, 2012) *Some assembly required: Organizing in the 21st Century*. Colloquium series at Northwestern University Qatar, Doha, Qatar.
- Contractor, N. (September 26, 2012). *Team assembly in online games*. Guest lecture at the Fudan School of Business, Shanghai, China.
- Contractor, N. (September 21, 2012). *Some assembly required: Organizing in the 21st century*. Presentation at the LUISS Business School, Rome, Italy.
- Contractor, N. (September 17, 2012). *Studying teams at the hyperedge*. Presentation at the European Union funded Innovation Sustainability Technology (INSITE) workshop titled “Networks’ emergence and sustainability” at Ca’ Foscari University of Venice, Italy.
<http://www.insiteproject.org/event/networks-emergence-sustainability/>
- Contractor, N. (August 21, 2012). Presented at the 2012 Summer Social Webshop on Technology Mediated Social Participation, University of Maryland, College Park, MD.
<http://www.cs.umd.edu/hcil/webshop2012/index.shtml>
- Contractor, N. (July 9, 2012). *Network theories and methods in web science*. Tutorial presented at the 4th Web Science Summer School, Leiden, Netherlands.
<http://www.lorentzcenter.nl/lc/web/2012/490/poster.pdf>
- Contractor, N. (July 4, 2012). *Social network theories and methods*. Tutorial presented at the School on Networks in Biology, Social Science and Engineering organized as part of the Indian Institute of Science Mathematics Initiative, Bangalore, India.
<http://math.iisc.ernet.in/~imi/NBSSEWS.php>
- Contractor, N., & Srivastava, J., (June 25, 2012). *Network science models and computational methods*. Tutorial presented at the Army Research Laboratory, under the auspices of the Network Science: Collaborative Technology Alliance (NS-CTA), Aberdeen Proving Ground, MD. <http://www.ns-cta.org>
- Contractor, N. (June 16, 2012). Facilitated a networking exercise at *Women Networking For Sustainability: Celebrating The Past & Envisioning The Future*, held concurrently with the Rio+20 United Nations Conference on Sustainable Development, Rio de Janeiro, Brazil.
- Contractor, N. (May 31-June 1, 2012). Participated in the National Advisory Committee meeting for the Active Aging Research Center, Madison, WI.

http://aarc.chess.wisc.edu/?page_id=277

Contractor, N. (May 17, 2012). *The role of networks in the assembly of effective teams*. Presentation at a National Cancer Institute meeting on The Role of Health Care Teams in Cancer Care, Bethesda, MD.

Contractor, N. (April 27, 2012). Presentation on Social Network Analysis and Application panel, University of Missouri, Colombia, MO.

Contractor, N. (March 21, 2012). *Some assembly required: Organizing in the 21st Century*. Presentation at the UC Davis Clinical and Translational Science Center's Translation Science Seminar, Sacramento, CA.

Contractor, N. (October 16, 2011). *Traces in a tangled web*. Chicago Humanities Festival, Chicago, IL.

Contractor, N. (September 30, 2011) *Using web science to understand and enable 21st century networks*. Presentation at the Workshop on Information in Networks (WIN), New York University's Stern School of Business, New York, NY. <http://winworkshop.net/index.php>

Contractor, N. (August 24, 2011). *Understanding and enabling large socio-communication networks*. Summer Social Webshop (@Webshop2011), University of Maryland, College Park, MD. <http://www.cs.umd.edu/hcil/webshop2011/index.shtml>

Contractor, N. (2011). Workshop on Social Network concepts and Analysis Techniques. University of Trento, Trento, Italy.

Contractor, N. (June 2, 2011). Conducting social network analysis at the petascale level: Challenges and Opportunities, *Annual Workshop on Network Science*, Virginia Tech.

Contractor, N. (May 23, 2011). Some assembly required: Organizing in the 21st Century. *Profiting from the New Web Conference*. Royal Society, London.

Contractor, N. (October 2-4, 2010). Using web science, internet science and network science to understand and enable society. European Science Foundation Meeting on the *Future Internet and Society*, Acquafredda di Maratea, Italy.

Contractor, N. (September 25-29, 2010). Some assembly required: Leveraging Web Science to understand and enable team assembly. Royal Society 350th Anniversary Conference on Web Science, London.

Contractor, N. (April 29, 2010). Some assembly required: Understanding and enabling team assembly. *Network Business Initiative Special Seminar*, Harvard Business School, Boston, MA.

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Contractor, N. (April 16, 2010). Using network science to understand and enable team assembly *Pennsylvania State Network Science Day*, University Park, PA.

Contractor, N. (November 13, 2009). Comparing actor-oriented modeling and machine learning approaches to understanding network dynamics . *2nd Meeting on Methodology for Empirical Research on Social Interactions, Social Networks and Health*, Harvard University, Cambridge, MA.

Contractor, N. (November 4, 2009). Understanding and enabling team assembly. *Booth School of Business Colloquium*, University of Chicago, Chicago, IL.

Contractor, N. (October 8, 2009). Understanding and enabling team assembly. *Mary Junck Research Colloquium*, University of North Carolina, Chapel Hill, NC.

Contractor, N. (August 21, 2006). *Social network methods and tools to advance public health*. Invited lecture at National Institutes of Health Road Map Summit on Methodology & Technology, Rockville, MD.

Contractor, N. (February 8, 2007). *Science of networks in communities related to the future of digital learning and media*, MacArthur Foundation, Chicago, IL.

Contractor, N. (January 29, 2007). *Semantic web and social network analysis*. Open Grid Forum workshop on Semantic Web, Social Networks & Web 2.0, Chapel Hill, NC.

Contractor, N. (April, 2006). *From Disasters to WoW: Enabling communities with cyberinfrastructure*. NASA Goddard Information Science & Technology Colloquium Series, Goddard Space Flight Center, Greenbelt, MD.

Contractor, N. (April 4, 2006). *From Disasters to WoW: Enabling Communities with Cyberinfrastructure*. mms://video.dis.purdue.edu/general/noshircontractor.wmv, Purdue University, Hammond, IN.

Contractor N. (October 28, 2005). *Utilizing social network analysis to understand transnational advocacy networks*. Ford foundation forum on "Transnational Advocacy in Communication and Information Policy," New York, NY.

Contractor, N. (August 22, 2005). *European e-Government research seen from the outside*. Panel of International Digital Government Research, Copenhagen, Denmark.

Contractor, N. (May 2, 2005). *Co-evolution of knowledge networks and 21st century forms of organizing*. MeshForum 2005, Audio version of presentation featured under IT conversations: <http://www.itconversations.com/shows/detail235.html> Chicago, IL.

Contractor, N. (April 28, 2005). *Co-evolution of knowledge networks and 21st century cyberinfrastructure*. Invited luncheon speaker at the Centers of Excellence in Cancer

Communication Research Grantees Meeting, St. Louis, MO.

Contractor, N. (April 25, 2005). *Co-evolution of knowledge networks and 21st century cyberinfrastructure*. Indiana University's Talk Series on Networks and Complex Systems. Bloomington, IN.

Contractor, N. & Schiller, D. (April 22, 2005). *Age of Networks: Social, cultural and technological connections*. Colloquium hosted by UIUC Department of Speech Communication, Urbana, IL.

Contractor, N. (April 18, 2005). *Co-evolution of knowledge networks and 21st century organizational forms*. UIUC College of Education Seminar Series, Champaign, IL.

Contractor, N. (April 15, 2005). *Networks in the public interest*. UIUC transnational seminar series, Urbana, IL.

Contractor, N. (April 5, 2005). *Co-evolution of knowledge networks and 21st century organizational forms*. UIUC Center for Global Studies, Champaign, IL.

Contractor, N. (March 23, 2005). *Co-evolution of knowledge networks in 21st century organizational forms*. Colloquium at the Rotterdam School of Management, Erasmus University, Rotterdam, Netherlands.

Contractor, N. (March, 2005). *Cyberinfrastructure for the Social Sciences*. NSF Workshop panel at Airline Center, Warrenton, VA.

Contractor, N. (March 1, 2005). *Social network concepts & metrics*. Guest lecturer in course titled "Visualizing & Navigating Knowledge Networks" offered by UIUC's Department of Electrical & Computer Engineering and Graduate School of Library & Information Science, Urbana, IL.

Contractor, N., Wali, A., & Severson, R. (February 25, 2005). *Mapping cultural and network assets in three Chicago communities*. Rockefeller foundation workshop on Cultural dimensions of transnational communities: Understanding and mapping cultural networks and assets, New York, NY.

Contractor, N. (2004, November 20, 2004). *The role of networks in crisis management*. 4th Asia-Pacific Symposium on Press and Scientific and Social Progress: Science-Technology, Media & Major Crisis Management, Beijing, China.

Contractor, N. (November 18, 2004). *Visioning a cyberinfrastructure for transnational digital government research*. EU-US electronic government research collaboration meeting, Technical University of Delft, Delft, Netherlands.

Contractor, N. (December 3, 2004). *Co-evolution of knowledge networks in 21st century*

organizational forms. Nanyang Technological University, Singapore.

Contractor, N. (December 1, 2004). *Co-evolution of knowledge networks in 21st century organizational forms*. United Nations University, Macau, China.

Contractor, N. (November 30, 2004). *Co-evolution of knowledge networks in 21st century organizational forms*. Department of Communication, City University of Hong Kong, Hong Kong.

Contractor, N. (November 22, 2004). *Co-evolution of knowledge networks in 21st century organizational forms*. Department of Communication, Peking University, Beijing, China.

Contractor, N. (October 29, 2004). *Challenges, opportunities, and strategies for fostering transnational collaboration on e-Government research: The Budapest Workshop*. [EU/NSF collaboration on digital government research](#). E.2004 eChallenges, Vienna, Austria.

Contractor, N. (September 24, 2004). *Using technologies to support and enhance organizational knowledge networks*. [Center for Human Resource Management \(CHRM\) Roundtable on Communication Strategies to Drive Results](#), Oak Brook, IL.

Contractor, N. (September 22, 2004). *Role of knowledge networks in fostering community*. UIUC's Cross-campus initiative on the Ethnography of the University, Urbana, IL.

Contractor, N. (August 31, 2004). *Challenges, opportunities, and strategies for fostering transnational collaboration on e-Government research*. [NSF-Delegation panel on eGovernment research in the US](#). eGov 2004, Zaragoza, Spain.

Contractor, N. (May 14, 2004). *Principles of network management*. Invited presentation at the "[Connect and Develop: Managing Networks of Innovation](#)," Mack Center for Technological Innovation at the Wharton School of Management, University of Pennsylvania, Philadelphia, PA.

Contractor, N. (May 7, 2004). *Theories of communication networks*. Invited presentation jointly sponsored by the University of Trieste's Faculty of Communication Sciences and Faculty of Economics and Statistics, Trieste, Italy.

Contractor, N. (April 24, 2004). *Coevolution of knowledge networks and policy formation in 21st century organizational forms*. Invited presentation at the "Voice and citizenship: Re-thinking theory and practice in political communication" symposium. Organized by the Department of Communication, University of Washington, Seattle, WA.

Contractor, N. (April 2, 2004). *How policy shapes networks and networks shape policy*. Institute for Communication Research/Ford Policy Series, University of Illinois at Urbana-Champaign, Champaign, IL.

Contractor, N. (March 24, 2004). *Multi-theoretical multilevel models to study the co-evolution of knowledge networks*. Invited presentation jointly sponsored by the Central European University's Departments of Sociology and Psychology, Budapest, Hungary.

Contractor, N. (March 5, 2004). *Coevolution of knowledge networks in 21st century organizational forms*. Department of Marketing Proseminar, University of Illinois at Urbana-Champaign, Champaign, IL.

Contractor, N. (March 3, 2004). *Enabling entrepreneurial networks*. Coleman Entrepreneurship Center, DePaul University, Chicago, IL.

Contractor, N. (December 5, 2003). *Using social network analysis to leverage tobacco control networks*. U.S. National Cancer Institute, Bethesda, MD.

Contractor, N. (December 2, 2003). Participant, Panel on *Modeling al-Qa'ida*. Sponsored by U.S. Government, Washington, D.C.

Contractor, N. (November 25, 2003). *Networks in the interest of society*. Center for Information Technology Research in the Interest of Society, University of California at Berkeley, Berkeley, CA. <http://www.citris.berkeley.edu/>

Contractor, N. (April 25, 2003). *Multi-theoretical multi-level models for the emergence of knowledge networks*. Leeds School of Business, University of Colorado at Boulder, CO.

Contractor, N. (October 20, 2003). *Multi-theoretical multilevel models for the study of knowledge networks*, Bocconi University, Milan.

Contractor, N. (June 5, 2003). *Defense Science and Technology*, Laboratory talk, Farnborough, Hampshire, United Kingdom.

Contractor, N. (March 26, 2003). *Networks vs. hierarchy: Implications for learning & development*. Chief Learning Officers Forum sponsored by Executive Development Associates, Atlanta, GA.

Contractor, N. (March 4, 2003). *Electronic surveillance and the "dual-effects" hypothesis*. Guest lecture, Professor Christian Sandvig's course titled "Internet Policy," Urbana, IL.

Contractor, N. (January 8, 2003). *Leveraging knowledge networks in a global economy*. Tata International Ltd., Mumbai, India.

Contractor, N. (December, 20, 2002). Participant in a roundtable discussion on *Criteria for credit in a collaborative world*. UIUC Center for Advanced Study, Urbana, IL.

Contractor, N. (November 4, 2002). *Co-evolution of knowledge networks and 21st century organizational forms*. [National Center for Digital Government Seminar Series](#), Kennedy

School of Government, Harvard University, Cambridge, MA.

Contractor, N. (November 1, 2002). *Multi-theoretical multi-level models (MTML) for understanding the emergence of knowledge networks*. [MIT Organizational Studies Group Seminar Series](#), Cambridge, MA.

Contractor, N. (September 25, 2002). *Constructing knowledge networks*. Brown bag series of the Office for Information Management, College of Commerce and Business Administration, University of Illinois at Urbana-Champaign, Champaign, IL.

Contractor, N. (July 29, 2002). *p* Techniques for multi-theoretical multilevel social network analysis*. Workshop on Statistical theory of Dynamically Emerging Social Groups. Rensselaer Polytechnic Institute, Troy, NY.

Contractor, N. (May 30, 2002). *Social mechanisms that facilitate the creation and maintenance of virtual networks among government agencies*. Workshop on "Developing a Basic Research Agenda for Digital Governance." Kennedy School of Government, Harvard University, Cambridge, MA.

Contractor, N. (May 27, 2002). *Co-evolution of communication and knowledge networks in the emergence of social capital*. Workshop on "The ambivalent relationship between Social Capital and IT," Amsterdam, Netherlands.

Contractor, N. (May 23, 2002). *Multi-level, multitheoretical approach to retrieval and allocation of information in knowledge networks*. Colloquium at the University of Amsterdam, Netherlands.

Contractor, N. (April 11, 2002). *Multi-level, multitheoretical approach to retrieval and allocation of information in knowledge networks*. Colloquium presented as part of the Groups and Organization (GO) series at the School of Decision and Social Sciences, Carnegie Mellon University, Pittsburgh, PA.

Contractor, N. (April 10, 2002). *Multi-level, multitheoretical approach to retrieval and allocation of information in knowledge networks*. Colloquium presented at the Katz School of Business, University of Pittsburgh, Pittsburgh, PA.

Contractor, N. (March 22-23, 2002). *Organizational Warfare*. U.S. Department of Defense workshop, organized by the Naval Postgraduate School, Monterey, CA.

Contractor, N. (March 6-7, 2002). *Granting Organizations of the Future*. NSF workshop, organized by the Center for Technology in Government, SUNY, Albany, NY.

Contractor, N. (April, 2001). *Co-evolution of knowledge networks and 21st century organizational forms*. Invited presentation as part of the Impact Series: Explorations of the impact of new information technology on arts, culture, politics, and society,

supported by the Office of the Provost, University of Arizona, Tucson, AZ.

Contractor, N. (March, 2001). *Communication network analysis workshop*. Sponsored by Finland University Network for Communication Sciences at the University of Jyväskylä, Jyväskylä, Finland.

Contractor, N. (February, 2001). *H.323-based videoconferencing in the educational environment*. Presented at the 2EAST: New technology series, Northwestern University, Evanston, IL.

Contractor, N. (October, 2000). *Social networks and distributed intelligence*. Invited presentation as part of the Sawyer Seminar on Heterarchies, supported by the Andrew W. Mellon Foundation and the Institute for Social and Economic Research and Policy (ISERP) at Columbia University, New York, NY.

Contractor, N. (October, 2000). *Social network formulations of knowledge and distributed intelligence*. Invited presentation at the workshop on Heterarchies: Distributed Intelligence and the Organization of Diversity, Santa Fe Institute, Santa Fe, NM.

Contractor, N. (June, 2000). *Managing social and intellectual capital*. Workshop for Korean advertising executives sponsored by the University of Illinois, Champaign-Urbana, Champaign, IL.

Contractor, N. (March, 2000). *Emergence of communication networks*. Brown bag presentation for the Social Psychology Division, Department of Psychology, University of Illinois at Urbana-Champaign, Champaign, IL.

Contractor, N. (March, 2000). *Communication network analysis*. Workshop for Communication scholars in Thailand hosted by the Faculty of Communication Arts, Chulalongkorn University, Bangkok, Thailand.

Contractor, N. (February, 2000). *Co-evolution of knowledge networks and 21st century organizational forms*. Tieto 2000: Professional Forum on New Information Technologies, Helsinki, Finland.

Contractor, N. (January, 2000). Invited address to the "*Forum on New Technologies in Information and Communication for the XXIth Century*", hosted by Barcelona University (UB) and the Technical University of Catalunya (UPC), Barcelona, Spain.

Contractor, N. (December, 1999). *Advanced collaboration tools to support multi-university distributed learning in organizational communication*. Video-conference presentation to a dozen university locations in the United Kingdom participating in the colloquia series sponsored by the Scottish Higher Education Funding Council.

Contractor, N. (November, 1999). *Communications in the global enterprise*. Invited presentation to the External Advisory Board of the University of Michigan's Program in

Manufacturing, Ann Arbor, MI.

Contractor, N. (November, 1999). *HR implications for virtual organizations*. Invited presentation at the Noon Seminar series, Department of Human Resource Education, University of Illinois at Urbana-Champaign, Champaign, IL.

Contractor, N. (August, 1999). *Collaborative learning: Experiences from a graduate course on globalization*. Invited presentation to the Video Working Group of the Committee on Institutional Cooperation (CIC), State College, PA.

Contractor, N. S., Zink, D., & Chan, M. (June, 1998). *IKNOW: A tool to assist and study the creation, maintenance, and dissolution of knowledge networks*. Invited presentation at the First Kyoto Meeting on "Social Interaction and Communityware," Kyoto, Japan.

Contractor, N. (March, 1998). *Knowledge and Distributed Intelligent*, National Science Foundation at University of California, Santa Barbara, CA.

Contractor, N. (March, 1998). *Social & Ethical Dimensions of Knowledge Networking*, National Science Foundation at University of California, Santa Barbara, CA.

Contractor, N. (1998). *Web Lab*, and National Science Foundation, Washington, D.C.

Contractor, N. (1998). *Digital Governance*, National Science Foundation, Alexandria, VA.

Contractor, N. & Monge, P. R. (November, 1997). *Theoretical mechanisms for dynamic modeling of communication networks*. School of Communication, Stanford University, Palo Alto, CA.

Contractor, N. (October, 1997). *Knowledge networks in virtual organization: conceptual rationale and software demonstration*. School of Information, University of Michigan, Ann Arbor, MI.

Contractor, N. (October, 1997). *Self-organizing communication networks in organizations*. Wharton School of Management, University of Pennsylvania, Philadelphia, PA.

Contractor, N. (September, 1997). *Self-organizing communication networks in organizations*, Department of Communication, University of Maryland, College Park, MD.

O'Keefe, B., Contractor, N., & Zaritsky, R. (April, 1997). *Educational technologies at the team engineering laboratory*. Andersen Consulting Educational, St. Charles, IL.

Contractor, N., & O'Keefe, B. (February, 1997). *The use of technologies to support learning communities*. UIUC Faculty Retreat, Urbana, IL.

Contractor, N. (February, 1997). *Report on Active X, Java, and other web-based technologies*.

Sponsored by UIUC Educational Technologies Board, Urbana, IL.

Contractor, N. (December, 1996). *Unintended consequences of new information technologies: The case of the Internet*. Indian Petro-Chemicals Limited, Vadodara, India.

Contractor, N. (December, 1996). *The Internet and Global Organization*. Indian Institute of Management, Ahmedabad, India.

Contractor, N., & O'Keefe, B. (November, 1996). *Project CITY: An Illustration of the TEAM Methodology*. Department Colloquium, Department of Communication, University of Arizona, Tucson, AZ.

Contractor, N. (October, 1996). *The Emergence of Communication Networks*. Department of Communication, Purdue University, Hammond, IN.

Contractor, N. (April, 1996). *Unintended consequences of new information technologies: The case of the Internet*. Guest lecturer in Professor Lillian Hoddeson's UIUC undergraduate course on history of technologies, Urbana, IL.

Contractor, N. (April, 1996). *Computational Organizational Theories*. Guest lecturer at UIUC's Institute for Communication Research Proseminar, Urbana, IL.

Contractor, N. (January-April, 1996). *Special topics in social networks*. Guest lecturer at a graduate seminar on Communication Networks at the Annenberg School of Communication, University of Southern California, Los Angeles, CA.

Contractor, N. (March, 1996). *Computational Organizational Theories*. Workshop at Arizona State University, Phoenix, AZ.

Contractor, N. (February, 1996). *Unintended consequences of new information technologies: The case of the Internet*. American Center, United States Information Service (USIS), New Delhi, Delhi, India.

Contractor, N. (February, 1996). *Unintended consequences of new information technologies: The case of the Internet*. Institute for Electrical and Electronic Engineers (IEEE), Baroda, India.

Contractor, N. (February, 1996). *Communication technologies and re-engineering the workplace*. Federation of Industries, Baroda, India.

Contractor, N. (February, 1996). *Technological enhancements to workgroup effectiveness*. Institute for Electrical and Electronic Engineers (IEEE), Baroda, India.

Contractor, N., O'Keefe, B. J., & Hollingshead, A. B. (November, 1995). *Beyond E-mail: An advanced workshop for electronic research and pedagogy*. Short course offered at the meeting of the Speech Communication Association, San Antonio, TX.

Contractor, N. (July, 1995). *Technological enhancements to work group effectiveness*. Workshop for MBA students from the Kymmene Corporation, Milan, Italy.

CONFERENCE PRESENTATIONS

Contractor, N. (2021, February 11). Pairing Teams for, and (Re)pairing Teams during Long-Duration Space Exploration [Paper Presentation]. Panelist in DeChurch, L. (Chair), Understanding and Enabling Human Travel to the Moon and Mars, Panel discussion conducted at the annual meeting of the American Association for the Advancement of Science (AAAS), Virtual.

Contractor, N. (2021, February 10). *Teaming in the Time of COVID-19: What Astronaut crews can teach us about “re-pairing” our relationships* [Conference Presentation]. Society for Personality and Social Psychology Preconference: Bringing Intragroup Processes back to Social Psychology, Virtual.

Christian, S., Lougheed, G., Larson, L., DeChurch, L., & Contractor, N. (2021, February 2). *Revisionist Histories: Reflected Themes from the ISS and SIRIUS Space Missions* [Poster Presentation]. NASA Human Research Program Investigators' Workshop, Virtual.

Antone, B., Gruet, V., Gupta, A., DeChurch, L., Bell, S., & Contractor, N. (2021, February 3). *Team Performance in Space Crews* [Conference Presentation]. NASA Human Research Program Investigators' Workshop, Virtual.

Izadinia, N., DeChurch, L., Waechter, A., & Contractor, N. (2021, February 3). *Measuring and Predicting Performance for Individuals, Teams, and Systems in Interdependent Crew Tasks (MAPPITS-ICT)* [Conference Presentation]. NASA Human Research Program Investigators' Workshop, Virtual.

Johnson, M., Gokhman, I., Bell, S., DeChurch, L., & Contractor, N. (2021, February 3). *Talking about Mars: Team Communication Dynamics and Decision Quality in Space Crews* [Conference Presentation]. NASA Human Research Program Investigators' Workshop, Virtual.

Tanaka, K., DeChurch, L., Baimenova, A., & Contractor, N. (2021, February 4). *Network Routing Task Performance Among Space Crew with Human Mission Support VS. Automated Mission Support in Space Multiteam Systems* [Conference Presentation]. NASA Human Research Program Investigators' Workshop, Virtual.

Antone, B., Lungeanu, A., DeChurch, L., Bell, S., & Contractor, N. (2021, February 4). *A Successful Crew Composition Countermeasure Validated in HERA* [Conference Presentation]. NASA Human Research Program Investigators' Workshop, Virtual.

Lungeanu, A., DeChurch, L., & Contractor, N. (2021, February 4). *SCALE-ing Crew Shared Mental*

Models: A Computational Model [Conference Presentation]. NASA Human Research Program Investigators' Workshop, Virtual.

Wu, Y. J., Srinivas, A., Antone, B., DeChurch, L. A., & Contractor, N. S. (2021, January 29). *Social Network Churn Within and Between Teams in Times of COVID-19* [Conference Presentation]. The Third North American Social Networks Conference (NASN).

Tyagi, A., Gómez-Zarà, D., & Contractor, N. S. (2020, December 7-10). *How do friendship and advice ties emerge? A case study of graduate student social networks* [Paper presentation]. The 2020 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM).

Gómez-Zarà, D., Ichhaporía, R., DeChurch, L. A., & Contractor, N. S. (2020, November 19-22). *Do I know you? The effects of offline social capital in self-assembled teams online* [Paper presentation]. The Virtual 106th Annual Convention of the National Communication Association (NCA).

Wang, Y., Zhang, J., Ding, Z., DeChurch, L. A., & Contractor, N. S. (2020, November 19-22). [*Dynamics of processes and performance of teams using enterprise social media*](#) [Paper presentation]. The Virtual 106th Annual Convention of the National Communication Association (NCA).

DeChurch, L. A., & Contractor, N. S. (2020, November 19-22). [*Signatures of Success in Human Agent Teams*](#). Panelist in Welles, B. F. (Chair), Team Communication Research in the Age of Artificial Intelligence, Panel discussion conducted at the Virtual 106th Annual Convention of the National Communication Association.

Izadinia, N., DeChurch, L. A., Waechter, A., Contractor, N. (2020, November 7-13). *Optimization-based Metrics Of Multilevel Performance In Multiteam Systems* [Paper presentation]. Virtual Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting 2020.

Gómez-Zarà, D., Ichhaporía, R., DeChurch, L. A., & Contractor, N. S. (2020, September 25-27). *Do I know you? The effects of social capital on self-assembled teams* [Poster presentation]. Virtual Organizational Communication Mini-Conference [OCMC]

Izadinia, N., DeChurch, L. A., Waechter, A., Contractor, N. S. (2020, September 25-27). *New metrics for evaluating individual and team performance in multiteam systems* [Poster presentation]. Virtual Organizational Communication Mini-Conference (OCMC).

Tanaka, K., DeChurch, L. A., & Contractor, N. S. (2020, September 25-27). *Positional and dispositional factors that predict who commits social network routing errors and who learns from them* [Conference presentation]. Virtual Organizational Communication Mini-Conference (OCMC)

- Wu, Y. J., Antone, B., Chan, C. Leonardi, P., DeChurch, L., & Contractor, N. S. (2020, September 25-27). Status and Network Mobilization in Organizations During the Times of COVID-19 [Poster presentation]. Virtual Organizational Communication Mini-Conference (OCMC).
- Tanaka, K., DeChurch, L. A., & Contractor, N. S. (Positional and dispositional factors that predict who commits social network routing errors and who learns from them [Conference presentation]. the International School and Conference on Network Science (NetSci), September 17-25.
- Contractor, N. (2020, August 7-11). Unravelling the sequential structural signatures of success in human agent teams. [Conference presentation]. Academy of Management Annual Meeting 2020
- Contractor, N. (2020, August 7-11). [Using AI to turbocharge organizational network analysis](#) [Conference presentation]. Academy of Management Annual Meeting 2020
- Zurek, M., Harris, M., Johnson, J., N. S., DeChurch, L. A., & Contractor, N. S. (2020, July 13-17). *Bridging analog environments: Comparison of group dynamics and cohesion between the human exploration research analog (HERA) and over-wintering Antarctic stations* [Conference presentation]. Virtual sunbelt conference of the International Network for Social Network Analysis (INSNA).
- Johnson, J., Zurek, M., Contractor, N. S., & DeChurch, L. A. (2020, July 13-17). *The social network ecology of small groups in isolated and confined environments* [Conference presentation]. Virtual sunbelt conference of the International Network for Social Network Analysis (INSNA).
- Antone, B., Néray, B., Munar, W., Koskinen, J., & Contractor, N. S. (2020, July 13-17). *Missing tie imputation in sparse networks with ego-centric responses* [Conference presentation]. Virtual sunbelt conference of the International Network for Social Network Analysis (INSNA).
- Lungeanu, A., Whalen, R., Wu, Y. J., DeChurch L. A., & Contractor N. S. (2020, July 13-17). *Text and networks: Mapping changes in the expertise diversity of patent teams* [Conference presentation]. Virtual sunbelt conference of the International Network for Social Network Analysis (INSNA).
- Tanaka, K., DeChurch, L. A., & Contractor, N. S. (2020, July 13-17). *Origins of network acuity: Who has an ability to efficiently use their awareness of the group communication network* [Conference presentation]. Virtual sunbelt conference of the International Network for Social Network Analysis (INSNA).
- Contractor, N. (2020, July). Research Roadmap. Panelist at the 12th ACM Web Science Conference 2020, Online (organized by the University of Southampton).

Antonne, B., DeChurch, L. A., Bell, S., & Contractor, N. S. (2020, April 21-25). [*Re-Pairing Teams for Long-Duration Space Exploration*](#). Society for Industrial and Organizational Psychology (SIOP) 2020, Virtual Conference.

Antone, B., Gruest, V., DeChurch, L. A., Bell, S., & Contractor, N. S. (2020, January). *Team performance in long duration space missions: SIRIUS '19* [Paper presentation]. NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2020, January). *Leadership networks and shared mental models: Leading teams over time through space* [Poster presentation]. NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Antone, B., Lungeanu, A., Bell, S. T., DeChurch, L. A., & Contractor, N. S. (2020, January). *Crew recommender for effective work in space (project crews): Validation & countermeasure development* [Poster presentation]. NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Izadinia, N. , DeChurch, L. A., Waechter, A., & Contractor, N. S. (2020, January). *Optimization-based metrics for evaluating individual and team performance in spaceflight multiteam systems* [Poster presentation]. NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

DeChurch, L. A., Tanaka, K., & Contractor, N. S. (2020, January). *The impact of network acuity on information sharing under communication delays in space multiteam systems* [Paper presentation]. NASA Human Research Program Investigators' Workshop, Galveston, TX.

Plummer, G. ,DeChurch, L. A., Mesmer-Magnus, J. R., Johnson, J., & Contractor, N. S. (2020, January). *In a world of their own... team cognition in long-term cohabitating teams* [Paper presentation]. NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

DeChurch, L. A., Gokhman, I. A. , Plummer, G., Vazquez, M., Bell, S. & Contractor, N. S. (2019, October). *Deciding on mars: The effects of isolation on autonomous team decision-making* [Paper presentation]. The 70th International Astronautical Congress, Washington, D.C, United States.

DeChurch, L.A., Gruest, V., Lungeanu, A., & Contractor, N.S. (2019, October). *Leadership topologies in space explorer teams* [Paper presentation]. The 7th International Workshop in Social Network Analysis, Vietri sul Mare, Italy.

Antone, B., Zhang, D., Li, H., Zhang, T., Kudaravalli, A., Xu, Y., DeChurch, L.A., Leonardi, P., & Contractor, N.S. (2019, October). *Predictive extension to ERGMs and applications in real-time monitoring of organizational social networks* [Paper presentation]. The 7th International Workshop in Social Network Analysis, Vietri sul Mare, Italy.

- Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2019, August). *Leading teams over time through space* [Poster presented]. *Academy of Management (AoM)*, Boston, MA, United States.
- Larson, L. E., Gokhman, I., Wojcik, H., DeChurch, L. A., Bell, S., & Contractor, N. (2019, July). *Collective intelligence & dynamic regulation in teams* [Paper presentation]. The 14th *Interdisciplinary Network for Group Research (INGRoup)* annual meeting, Lisbon, Portugal.
- Larson, L. E., Niler, A., Pendergraft, J., Carter, D. R., & DeChurch, L. A. (2019, July). Development and evaluation of an experiential learning activity for multiteam leaders. In J. G. Pendergraft, Mohan, G., & Carter, D. R. (co-chairs), *Facilitating multiteam system performance in high-stakes practical contexts* [Symposium]. The 14th *Interdisciplinary Network for Group Research (INGRoup)* annual meeting, Lisbon, Portugal.
- Harris, A. M., Niler, A., DeChurch, L., Mesmer-Magnus, J., & Contractor, N. S. (2019, July). *The experience of working in teams in space* [Poster presentation]. The 14th *Interdisciplinary Network for Group Research (INGRoup)* Annual Meeting, Lisbon, Portugal.
- Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2019, June). *Leading teams over time through space* [Poster presentation]. XXXIX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Montreal, Quebec, Canada.
- Lungeanu, A., Park, P., DeChurch, L. A., & Contractor, N. S. (2019, June). *Leveraging simulations to improve the functioning of multiteam systems* [Poster presentation]. 9th annual congress of the European Association of Work and Organizational Psychology, Turin, Italy.
- DeChurch, L. A., Larson, L. E., Gokhman, I., Wojcik, H., Bell, S., & Contractor, N. S. (2019, June). *Can we get along long enough to get to Mars? Team performance over time* [Poster presentation]. The 9th annual congress of the European Association of Work and Organizational Psychology, Turin, Italy.
- Gómez-Zar4, D., Parra, D., Arreondo, C., & Contractor, N. S. (2019, May). *The role of organizations and individuals in online collective action: A network analysis of social movements frames promoted on Twitter* [Paper presentation]. The 69th annual International Communication Association (ICA) Conference, Washington, D.C, United States.
- DeChurch, L. A. (2019, April). Panelist in E.A. McCune (Chair), *Translating complexity: From science to practice*. Panel discussion conducted at the 34th annual meeting of the Society for Industrial and Organizational Psychology, National Harbor, MD.

DeChurch, L. A. (2019, April). Co-Chair for, *Failure is not an option: Discovering the dynamics of space teams*. Symposium presented at the 34th annual meeting of the Society for Industrial and Organizational Psychology, National Harbor, MD.

Vazquez, M., Outland, N., Bell, S. T., DeChurch, L. A., & Contractor, N. S. (2019, April). *Examining interpersonal compatibility using fsQCA across two samples* [Paper presentation]. The 34th annual meeting of the Society for Industrial and Organizational Psychology, National Harbor, MD, United States.

Gokman, I., DeChurch, L. A., Plummer, G. K., Bell, S. T., & Contractor, N. S., (2019, April). *Team information sharing and decision making over time* [Paper presentation]. The 34th annual meeting of the Society for Industrial and Organizational Psychology, National Harbor, MD, United States.

Contractor, N.S., DeChurch, L.A., Kozlowski, S., & Johnson, J. (2019, February). *Missions to Mars: Understanding and preparing teams for the future* [Panel presentation]. The annual meeting of the American Association for the Advancement of Science (AAAS), Washington, D.C, United States.

Lazer, D., Contractor, N.S., Watts, D., González-Bailón, S., & Pentland, A.S. (2019, February). *Computational social science: The next decade*. Moderator at the Annual Meeting of the American Association for the Advancement of Science (AAAS), Washington, D.C.

Gómez-Zar4, D., Paras, M. Schechter, A., DeChurch, L.A., & Contractor, N.S. (2019, January). *Using relational event modeling for understanding team formation mechanisms in teams assembled online* [Paper presentation]. The International School and Conference on Network Science (NetSci-X), Santiago, Chile.

Contractor, N. S., Antone, B., Lungeanu, A., Bell, S. T., & DeChurch, L. A. (2019, January). *Validating models of team composition decisions for long-duration space exploration* [Poster presented]. Presented at 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.

DeChurch, L. A., Lungeanu, A., Park, P., & Contractor, N.S. (2019, January). *CREST: Crew recommender for effectively switching tasks* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.

DeChurch,, L. A., Niler, A. A., Mesmer-Magnus, J. R., & Contractor, N. S. (2019, January). *Task management in space multiteam systems* [Poster presentation]. Presented at 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.

Gokhman, I.A., Plummer, G., DeChurch, L. A., Bell, S. T., Vazquez, M. & Contractor, N. S. (2019, January). *Crew information sharing and decision making over time* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.

- DeChurch, L. A., Rudra, K. & Contractor, N. S. (2019, January). *Using interaction data to predict interpersonal relationships in space multiteam systems* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Contractor, N. S., DeChurch, L. A., Larson, L.E., Gokhman, I. A., Wojcik, H., & Bell, S. T. (2019, January). *Collective Intelligence In Space Crews* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Larson, L. E., Gomez-Zara, D., DeChurch, L. A., Bell, S. T., & Contractor, N. S. (2019, January). *Informal leadership In space crews* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Schultz, M., DeChurch, L. A., & Contractor, N. S. (2019, January). *Networks as filters: Selective information transmission in conversations aboard Skylab* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2019, January). *The emergence and development of crew shared mental models: An agent-based model* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Izadinia, N., DeChurch, L. A. Contractor, N. S., & Waechter, A. (2019, January). *Using optimization methods to benchmark performance in space teams* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Tanaka, K., Ennab, N., DeChurch, L. A., & Contractor, N. S. (2019, January). *Antecedents and outcomes of network acuity in space multiteam systems* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Mesmer-Magnus, J. R., Niler, A. A., Plummer, G., DeChurch, L. A. & Contractor, N. S. (2019, January). *Team cognition in context: A meta-analysis* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Plummer, G., DeChurch, L. A., Mesmer-Magnus, J. R., Johnson, J. & Contractor, N. S. (2019, January). *The development Of crew shared cognition* [Poster presentation]. 2019 NASA Human Research Program Investigators' Workshop Annual Conference, Galveston, TX.
- Schechter, A. & Contractor, N.S. (2019, January). *A dynamic sequence model of information sharing processes in virtual teams* [Paper presentation]. The Hawaiian International Conference for System Sciences, Wailea, HI, United States.

Mattarelli, E., Schecter, A., Hinds, P., Contractor, N.S., Lu, C., & Topac, B. (2018, December). *How co-creation processes unfold and predict submission quality in crowd-based open innovation* [Paper presentation]. The International Conference on Information Systems, San Francisco, CA, United States.

Niler, A.A., Mesmer-Magnus, J.R., Plummer, G., Larson, L.E., DeChurch, L.A., & Contractor, N.S. (2018, November). *Team context, team cognition, and team performance: A meta-analysis* [Paper presentation]. The 104th National Communication Association Annual Convention, Salt Lake City, UT, United States.

Moody, J., Contractor, N., Phillips, N., Young, L. (2018, November). Complementarity of the Network Sciences: distinctions, tensions and synergies across SNA, NS and the other system sciences. Panel member at the North American Regional Social Networks (NASN) Conference of the International Network for Social Network Analysis (INSNA), Washington, D.C.

Lungeanu, A., Park, P., DeChurch, L. A., & Contractor, N. S. (2018, November). *Deep space collaboration: Impact of latency and social networks on collaborative work* [Paper presentation]. The 104th National Communication Association Annual Convention, Salt Lake City, UT, United States.

Gómez-Zarà, D., Andreoli, S., DeChurch, L., & Contractor, N.S. (2018, October). *How can we assemble better interdisciplinary teams? The "My Dream Team" experience at the Universidad of Buenos Aires* [Paper presentation]. Contemporary Developments on Media, Culture and Society: Argentina and America Latina, Buenos Aires, Argentina.

Contractor, N. S. (2018, August). *Some assembly required: teaming in the 21st century* [Paper presentation]. The Innovations in Teaching Teamwork PDW Workshop, Academy of Management Conference (AoM), Chicago, IL, United States.

Contractor, N. S. (2018, August). *Multi-theoretical multilevel models of networks* [Paper presentation]. The Introduction to Social Network Analysis PDW Workshop, Academy of Management Conference (AoM), Chicago, IL, United States.

Mukherjee, A., Xiao, P., Wang, L., & Contractor, N. S. (2018, August). *Does the opinion of the crowd predict success?* [Paper presentation]. The Crowd and Cloud Session, Academy of Management Conference (AoM), Chicago, IL, United States.

Ng, J. & Contractor, N.S. (2018, August). *xSocial media & team collaboration: How the @mention feature facilitates and constrains teamwork* [Paper presentation]. The Academy of Management Conference (AoM), Chicago, IL, United States.

Contractor, N.S. (2018, August). *Facilitator*. Teaching Social Networks PDW Workshop at the Academy of Management Conference (AoM), Chicago, IL, United States.

Contractor, N.S. (2018, August). *Respondent*. How Advances in Digital Technologies Reconfigure Organizational Coordination Processes Showcase Symposium at the Academy of Management Conference (AoM), Chicago, IL, United States.

Lungeanu, A., Park, P., DeChurch, L., & Contractor, N. (2018, June). *Deep space collaboration: Impact of social networks on task switching in collaborative work* [Paper presentation]. The International School and Conference on Network Science, NetSci 2018 Satellite Workshop, Paris, France.

Tanaka, K., DeChurch, L., & Contractor, N. (2018, May). *Origins of omission and commission errors in perceptions of group communication networks* [Paper presentation]. The 68th Annual ICA conference, "Voices," Prague, Czech Republic.

Schultz, M., DeChurch, L., & Contractor, N. (2018, May). *Communicating through space and over time* [Paper presentation]. The 68th Annual ICA conference, "Voices," Prague, Czech Republic.

Park, P., Lungeanu, A., DeChurch, L. A., & Contractor, N.S. (2018, June). *Deep space collaboration: Impact of latency and social networks on collaborative work* [Paper presentation]. The XXXVIII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Utrecht, the Netherlands.

Tanaka, K., Jha, S., Gado, H., Twyman, M. D., DeChurch, L. A., & Contractor, N. S. (2018, June). *6-DoS (Six degrees of separation): A web-based platform to conduct small-world experiments* [Paper presentation]. The XXXVIII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Utrecht, Netherlands.

Mesmer-Magnus, J., Niler, A., DeChurch, L. A., & Contractor, N. S. (2018, May). *Working and leading the way to Mars: How work affects shared leadership* [Paper presentation]. The 3rd Interdisciplinary Perspectives on Leadership Symposium, Chania, Greece.

Contractor, N. S. (2018, May). *Why inhaling digital exhaust is taking organizational performance and the science of communication and technology to new highs*. Presented on a panel titled "Professor as entrepreneur: opportunities and risk" at the 68th The Annual Conference of the International Communication Association (ICA), "Voices," Prague, Czech Republic.

Tanaka, K., DeChurch, L., & Contractor, N. (2018, May). *Origins of omission and commission errors in perceptions of group communication networks* [Paper presentation]. The 68th The Annual Conference of the International Communication Association (ICA), "Voices," Prague, Czech Republic.

Schultz, M., DeChurch, L., & Contractor, N. (2018, May). *Communicating through space and over time* [Paper presentation]. The 68th The Annual Conference of the International Communication Association (ICA), "Voices," Prague, Czech Republic.

Balkundi, P., Burt, R., Contractor, N. S., Leonardi, P., Rizzuto, T., & Ng, J. (2018, April). Life in the network: From people analytics to relational analytics. In a Panel Symposium conducted at the Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Chicago, IL, United States.

Ng, J., DeChurch, L. A., & Contractor, N. S. (2018, April). *Information sharing in online teams: How interventions improve information processing* [Poster presentation]. The Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Chicago, IL, United States.

Twyman, M., Newman, D., DeChurch, L. A., & Contractor, N. S. (2018, April). *Inviting your next teammate: Algorithms & acquaintances* [Poster presentation]. The Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Chicago, IL, United States.

Niler, A.A., Mesmer-Magnus J. R., DeChurch, L. A., & Contractor, N. S. (2018, April). *Working alone & together: Understanding the factors that affect work transitions* [Poster presentation]. The Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Chicago, IL, United States.

Gokhman, I., Plummer, G. K., DeChurch, L. A., Vazquez, M., Bell, S. T., & Contractor, N. S. (2018, April). *Development and validation of a team information sharing assessment battery* [Poster presentation]. The Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Chicago, IL, United States.

Contractor, N.S., DeChurch, L.A., Bell, S.T., Olenick, J., Dishop, C., Bedwell, W., ... Niler, A. (2018, April). *A Question of time: Multidisciplinary approaches to understanding team dynamics* [Paper presentation]. The Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Chicago, IL, United States.

DeChurch, L., Ng, J., Leonardi, P., & Contractor, N. (2018, March). *The sociomateriality of teamwork* [Poster presentation]. The Organization Science Winter Conference: Technology and the Modern Organization, Park City, UT, United States.

Carter, D., Shuffler, M., Schechter, A., DeChurch, L., Contractor, N., Burke, S., Zaccaro, S., Landon L., Trainer H., & Pendergraft J. (2018, January). *Project FUSION: Facilitating unified systems of interdependent organizational networks*. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Niler, A., DeChurch, L., Mesmer-Magnus, J., & Contractor, N. (2018, January). *Working in and out of teams through space and time* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Bell, S., Vinokhodova, A., Gushin, V., Contractor, N., DeChurch, L., Outland, N., Vazquez, M., & Burns, T. (2018, January). *Toward a process model of interpersonal relationship*

- formation in ICE* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Gokhman, I., Plummer, G., DeChurch, L., Vazquez, M., Bell, S., & Contractor, N. (2018, January). *Development and validation of an information sharing assessment tool for space crews* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Plummer, G., DeChurch, L., Contractor, N., Johnson, J., & Mesmer-Magnus, J. (2018, January). *Shared mental models over time* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Johnson, J., Zurek, M., Contractor, N., & DeChurch, L. (2018, January). *Team dynamics in spaceflight analogs* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Twyman, M., Lungeanu, A., DeChurch, L., & Contractor, N. (2018, January). *The emergence and development of crew shared mental models: An agent-based model* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Tanaka, K., Witz, C., Niler, A., DeChurch, L., & Contractor, N. (2018, January). *Social network acuity among space crews and MCCs* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Gokhman, I., Larson, L., DeChurch, L., Bell, S., & Contractor, N. (2018, January). *Tracking crew performance over time* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- DeChurch, L., Park, P., Lungeanu, A., Twyman, M., & Contractor, N. (2018, January). *CREST: Crew recommender for effectively switching tasks* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Contractor, N., DeChurch, L., Antone, W., Twyman, M., Gibson, Z., Sawant, A., Gado, H., & Bell, S. (2018, January). *Teamstar: A Tool for evaluating and mitigating space team risk* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Antone, W., Lungeanu, A., Gibson, Z., DeChurch, L., Bell, S., & Contractor, N. (2018, January). *Team dynamics: Using simulation as a tool to develop theory* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Vazquez, M., Outland, N., Vinokhodova, A., Gushin, V., Bell, S., DeChurch, L., & Contractor, N. (2018, January). *Examining interpersonal compatibility using configurations of conditions for tie formation across two samples* [Paper presentation]. Paper presented at the NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

- Contractor, N. (2017, November). *Some assembly required: Collaboration in the 21st Century* [Poster presentation]. The Educational Technology and Computational Psychometrics Symposium (ETCPS), Iowa City, IA, United States.
- Twyman, M., Newman, D., DeChurch, L. A., & Contractor, N. S. (2017, October). *Inviting your next teammate: Algorithms and acquaintances* [Paper presentation]. The Organizational Communication Mini-Conference, Athens, OH, United States.
- Gibson, Z. M., DeChurch, L. A., Contractor, N. S. (2017, October). *Follow the leader: Semantic indicators of followership* [Paper presentation]. The Organizational Communication Mini-Conference, Athens, OH, United States.
- Tanaka, K., Witz, C., Niler, A. A., DeChurch, L. A., & Contractor, N. S. (2017, October). *Misperceptions of social structure: Omission and commission errors in communication networks* [Poster presentation]. The Organizational Communication Mini Conference, Athens, OH, United States.
- Wang, M., Sha, Z., Huang, Y., Fu, J. S., Fu, Y., Contractor, N., & Chen, W. (2017, September). *Data-driven vehicle preference modeling and prediction: A multidimensional network analysis approach* [Paper presentation]. The 7th International Conference on Collaborative Innovation Networks (COINs17), Detroit, MI, United States.
- Contractor, N. (2017, September). *Leveraging computational social science to address grand societal challenges* [Paper presentation]. Paper presented at the Conference on Complex Systems, Cancun, Mexico.
- Contractor, N. (2017, September). *Can CSS motivate new theories, data sources methods?* [Poster presentation] The Conference on Complex Systems, Cancun, Mexico.
- Li, Y., Sun, Y., & Contractor, N. (2017, August). *Graph mining assisted semi-supervised learning for fraudulent cash-out detection* [Poster presentation]. The 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Sydney, Australia.
- Gibson, Z. M., Anton, G., Vermeer, W., Gómez-Zarà, D., Bain, C., Brady, C., . . . Contractor, N. S. (2017, July). *Cultivating the conference culture: The role of diversity in interdisciplinary meetings* [Paper presentation]. The 1st North American Social Networks Conference, Washington, D.C, United States.
- Zakhlebin, I., Vinokhodova, A., Gushin, V., Bell, S. T., DeChurch, L., & Contractor, N. (2017, June). *Coevolution of interpersonal perceptions and team structure in long-duration space exploration missions* [Paper presentation]. The 1st North American Social Networks Conference, Washington, D.C, United States.
- Gomez-Zara, D., Vermeer, W., Gibson, Z., Bain, C., Anton, G., Brady, C., . . . Contractor, N. S.

- (2017, July). *The role of brokers in academic network building* [Paper presentation]. The 1st North American Social Networks Conference, Washington, D.C, United States.
- Larson L. E., Gomez-Zara, D., Jones B. R., DeChurch, L. A., & Contractor, N. (2017, July). Social identity, social identification, and intergroup leadership. In Brown, Tara (chair), *Dynamics at the boundaries is what matters* [Symposium]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Saint Louis, MO, United States.
- Contractor, N. S. (2017, July). Presented on a Panel titled *Sources of Data for Capturing Group Processes and Emergence* at a Doctoral Consortium at the Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, St. Louis, MO, United States.
- Mell, J. N., DeChurch, L. A., Contractor, N. S., & Leenders, R. (2017, July). *Identity asymmetries: An experimental investigation of social identity and information exchange in multiteam systems* [Paper presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, St. Louis, MO, United States.
- Ng, J., DeChurch, L., & Contractor, N. (2017, July). *Knowledge sharing in online groups: The impact of network informed associations on online group discussions* [Paper presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, St. Louis, MO, United States.
- Lamberson, P., Lang, J., Contractor, N., Dechurch, L., & Uzzi, B. (2017, July). *Sharing Strategies: Optimal networks for team collaboration and problem solving* [Paper presentation]. The 3rd International Conference on Computational Social Science (IC2S2), Cologne, Germany.
- Gomez-Zara, D., Larson, L. E., Jones, B. R., DeChurch, L. A., & Contractor, N. S. (2017, July). *Leadership and followership emergence in NASA space crews* [Paper presentation]. The WebScience Summer School 2017, Saint Petersburg, Russia.
- Contractor, N.S. (2017, June). *The impact of technology affordances on engendering innovation in multidimensional knowledge networks at scale*. Presented on a panel titled "How does the process of innovation need to change as a consequence of increased digitisation and connectivity?" at the Digital Innovation Networks Forum organized by the Future Internet Research & Experimentation (FIRE) initiative in Brussels, Belgium.
- Foote, J., & Contractor, N. S. (2017, June). *The behavior and network position of peer production community founders* [Poster presentation]. Collective Intelligence 2017, New York City, NY, United States.
- Contractor, N. S. (2017, June). *Network perspectives to understand and enable team science*. Lead Facilitator of a workshop at the Science of Team Science (SciTS) Conference in Clearwater Beach, FL, United States.

- Gomez-Zara, D., Parra, D., García, C., & Contractor, N. S. (2017, June). *The role of social movement organizations and their leaders in Twitter: Evidence from the Chilean Student Movement* [Paper presentation]. The International School and Conference on Network Science (NetSci 2017), Indianapolis, IN, United States.
- Gomez-Zara, D., Parra, D., & Contractor, N. S. (2017, June). *Using relational event modeling to explain movements' emergence in Twitter: Evidence from the Chilean student movement* [Paper presentation]. The International School and Conference on Network Science (NetSci 2017), Indianapolis, IN, United States.
- Twyman, M., Ma, L., Srivatsa, M., Cansever, D., & Contractor, N. (2017, June). *Searching networks to assemble teams* [Poster presentation]. The International School and Conference on Network Science (NetSci 2017), Indianapolis, IN, United State.
- Twyman, M., Dechurch, L., & Contractor, N. (2017, June). *Using a network approach for modeling shared cognition of astronaut teams* [Paper presentation]. The International School and Conference on Network Science (NetSci 2017), Indianapolis, IN, United State.
- Li, H., He, X., Huang, Y., Contractor, N., Xu, Y., & Huang, L. (2017, June). *Higher visibility, better performance: Peer pressure enabled by enterprise social media* [Paper presentation]. The XXXVII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Beijing, China.
- Johnson, J.C., Zurek, M., Contractor, N., & DeChurch, L. (2017, June). *Team dynamics in spaceflight analogs: shared mental models, informal social roles, and team viability and conflict in the Human Exploration Research Analog (HERA)*. The XXXVII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Beijing, China.
- Xu, B., Neidhardt, J., Huang, Y., & Contractor, N. (2017, June). [Capability, role, or relation: Collaboration in Dota 2 combat teams](#). Paper presented at the XXXVII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Beijing, China.
- Birkett, M., Melville, J., Janulis, P., Hogan, B., Bass, M., Contractor, N., & Phillips II, G. (2017, June). [Network Canvas: Designing a digital tool for egocentric network capture](#). Paper presented at the XXXVII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Beijing, China.
- DeChurch, L. A., Shultz, M., & Contractor, N. S. (2017, May). *SCALE: Shared Cognitive Architecture for Long-term Exploration* [Poster presentation]. Buzz Aldrin Space Institute Mars Mission Social Sciences Workshop, Cape Canaveral, FL, United States.
- Fu, J. S., Shumate, M., & Contractor, N. S. (2017, May). *Collective innovation adoption across interorganizational systems: Organizational boundary, social networks, and*

decision-making status [Paper presentation]. The 67th Annual Conference of the International Communication Association, San Diego, CA, United States.

DeChurch, L. A., Mesmer-Magnus, J. R., Niler, A., Plummer, G., Larson, L., & Contractor, N. S. (2017, May). *The relative instrumentality of team cognition: A meta-analysis* [Poster presentation]. The European Association of Work and Organizational Psychology Congress, Dublin, Ireland.

Contractor, N. S. (2017, May). *Can CSS motivate new theories, data sources, and methods?* Flash talk at the Institute for Social Sciences Conference titled "Re-Computing Social Sciences: What Have We Learned After a Decade?", UC Davis, Sacramento, CA, United States.

DeChurch, L. A., Larson, L., Jones, B., Gomez-Zara, D., & Contractor, N. S. (2017, May). *Social identification and leadership emergence within and between teams* [Paper presentation]. The Interdisciplinary Perspectives on Leadership Symposium, Mykonos, Greece.

Lamberson, P. J., Lang, J. C., Contractor, N., Dechurch, L., & Uzzi, B. (2017, April). *Sharing Expertise versus sharing information: Optimal networks for team collaboration and problem solving* [Paper presentation]. The Third Annual Conference on Network Science and Economics, St. Louis, MO, United States.

Ng, J., Antone, W., Gibson, Z., Bell, S. T., DeChurch, L. A., & Contractor, N. S. (2017, April). *Crew Recommender for Effective Work in Space: CREWS* [Paper presentation]. The Building Better Teams on Earth and Beyond Symposium at the Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Orlando, FL, United States.

DeChurch, L. A., Contractor, N. S., Niler, A., Mesmer-Magnus, J. R., Plummer, G., & Gomez-Zara, D. (2017, February). *Shared cognition in multiteam systems: A NASA space analog study* [Poster presentation]. The Organization Science Winter Conference, Park City, UT, United States.

Contractor, N. S., Gibson, Z., Antone, W., Ng, J., DeChurch, L. A., & Bell, S. T. (2017, January). *Composing effective space crews: Predicting crew camaraderie (CREWS)*. Presented on a panel titled "Markers for Individualizing Countermeasures in Exploration" at the NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

DeChurch, L. A., Schultz, M., Johnson, J., Contractor, N. S., Mesmer-Magnus, J., Plummer, G., & Twyman, M. (2017, January). *Structured text analysis for evaluating shared cognition*. Presented on a panel titled "Exploration Modeling Tools II" at the NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

DeChurch, L. A., Larson, L., Gómez-Zarà, D., Jones, B. R., Contractor, N., & Johnson, J. (2017, January). *Leadership emergence in space multiteam systems*. Panel presentation titled "Team, Training, and Performance Metrics" at the NASA Human Research Program

Investigators' Workshop, Galveston, TX, United States.

DeChurch, L. A., Plummer, G., Contractor, N. S., & Mesmer-Magnus, J. (2017, January). *The costs of switching between team and multiteam tasks* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Zakhlebin, I. V., Vinokhodova, A. G., Gushin, V. I., Bell, S. T., DeChurch, L. A., & Contractor, N. S. (2017, January). *Influence of Interpersonal perceptions on team structure in long-duration space exploration missions* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Park, P., DeChurch, L. A., & Contractor, N. S. (2017, January). *Understanding elective task switching* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Contractor, N. S., Gokhman, I. A., Larson, L. E., Bell, S. T., & DeChurch, L. A. (2017, January). *Leadership networks in space crews* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

DeChurch, L. A., Niler, A., Plummer, G., Tanaka, K., & Contractor, N. S. (2017, January). *Impact of social connectedness, communication delay, and sleep deprivation on cognitive network similarity in analog teams* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Contractor, N. S., Antone, W., Gibson, Z., Ng, J., DeChurch, L. A., & Bell, S. T. (2017, January). *Building extreme teams: Simulating team composition effects in isolated and confined environments* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Antone, W., Contractor, N. S., Bell, S. T., & DeChurch, L. A. (2017, January). *Faulty analysis: Analyzing the validity of different faultline measurement algorithms for long-duration space exploration* [Poster presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.

Schechter, A., & Contractor, N. (2016, December). *An illustration of the relational event model to analyze group interaction processes* [Paper presentation]. The Network Science of Squads Workshop, Denton, TX, United States.

Larson, L., Jones, B., Gibson, Z., DeChurch, L. A., & Contractor, N. S. (2016, September). *Leadership identity construction in multiteam systems* [Poster presentation]. The Organizational Communication Mini-Conference, Evanston, IL, United States.

Twyman, M., DeChurch, L., Newman, D., & Contractor, N. (2016, July). *The ties that form teams: Self-organization, homophily, and multiplexity* [Paper presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Helsinki, Finland.

Schechter, A. Y., DeChurch, L., & Contractor, N. (2016, July). *The semantic networks that underpin group interaction* [Paper presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Helsinki, Finland.

Contractor, N. (2016, July). Presented on a panel titled *Team chemistry in outer Space: Getting along with your crew when you know you can't quit*. Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Helsinki, Finland.

Niler, A., Asencio, R., DeChurch, L., Uzzi, B., & Contractor, N. (2016, July). *Gender composition affects female's experience of working in science teams* [Paper presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Helsinki, Finland.

Asencio, R., Huang, Y., DeChurch, L., Contractor, N., & Uzzi, B. (2016, July). *Across space and over time: Pushing the boundaries of virtual teams research*, Symposium at the Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Helsinki, Finland.

Plummer, G., Larson, L., Mesmer-Magnus, J., Niler, A., DeChurch, L., & Contractor, N. (2016, July). *When team cognition matters most: A meta-analysis* [Paper presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Helsinki, Finland.

Mukherjee, S., Huang, Y., Neidhardt, J., Uzzi, B., & Contractor, N. (2016, June). *Team assembly factors influencing the victor in competitive environment* [Paper presentation]. The International Conference on Computational Social Science (IC2S2), Evanston, IL, United States.

Wang, M., Huang, Y., Contractor, N., Fu, Y., & Chen, W. (2016, May). *A network approach for understanding and analyzing product co-consideration relations in engineering design* [Paper presentation]. The 14th International Design Conference, Cavtat-Dubrovnik, Croatia.

Twyman, M., DeChurch, L. & Contractor, N. (2016, April). *The impact of homophily and multiplex networks on the assembly of teams* [Poster presentation]. The XXXVI Sunbelt Conference of the International Network for Social Network Analysis (INSNA), International Network for Social Network Analysis, Newport Beach, CA, United States.

Contractor, N. (2016, February). Presented on a panel titled *Issues of Social Media and Social Networks for the Communication of Science Related to Contentious Societal Issues* at the National Academies of Science's Committee on the Science of Science Communication: A Research Agenda, Washington DC, United States.

Contractor, N. S., Bell, S. T., DeChurch, L. A., Brown, S. G., Hernandez, I., Forbush, E., & Jones, B.

- R. (2016, February). *CREWS: Crew Recommender for Effective Work in Space* [Paper presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- DeChurch, L., Contractor, N., Johnson, J., Mesmer-Magnus, J., Plummer, G., Twyman, M., Niler, A., Larson, L., & Hernandez, I. (2016, February). *SCALE: Share Cognitive Architecture for Long-Distance Space Exploration* [Paper presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- DeChurch, L., Contractor, N., Mesmer-Magnus, J., McDonald, J., & Hernandez, I. (2016, February). *Team task switching in astronaut crews on the international space station: Integrating multiteam membership, multiteam systems, multitasking & multidimensional networks to monitor & enable functional work shifts in astronaut crews* [Paper presentation]. The NASA Human Research Program Investigators' Workshop, Galveston, TX, United States.
- Murase, T., Asencio, R., McDonald, J., Poole, M. S., DeChurch, L. A., & Contractor, N. S. (2015, November). *The effect of entrainment of group processes on multiteam system effectiveness* [Paper presentation]. The Annual Convention of the National Communication Association (NCA), Las Vegas, United States.
- Fu, J. S., Shumate, M., & Contractor, N. (2015, November). *Organizational boundary matters: Examining government officials' intentions to adopt health innovations in India* [Paper presentation]. The Northwestern Interdisciplinary Global Health Symposium (NU-IGHS) Chicago, IL, United States.
- Huang, Y., Singh, P., Asencio, R., Contractor, N., DeChurch, L., & Uzzi, B. (2015, October). *Evaluating scientific outcomes from the user perspective*. Paper accepted to the Computer and Communications Security Quantifying Science Workshop (CCS), Tempe, AZ.
- Schechter, A. & Contractor, N. (2015, August). *Forming and performing: How group structure evolves in successful multiteam systems* [Paper presentation]. The 75th Annual Meeting of the Academy of Management, Vancouver, BC, United States.
- Asencio, R., Huang, Y., DeChurch, L., Contractor, N., Sawant, A., & Murase, T. (2015, July). *The MyDreamTeam builder: A recommender system for assembling & enabling effective teams* [Poster presentation]. The Interdisciplinary Network Conference for Group Research (INGRoup) Annual Conference, Pittsburgh, PA, United States.
- DeChurch, L. A., Contractor, N. S., Shumate, M., & Hernandez, I. (2015, July). *Perceptions of superordinate goals in a multiteam system network: The case of Bihar, India* [Paper presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Pittsburgh, PA, United States.

- Whalen, R., Brot, H., Uzzi, B., & Contractor, N. (2015, July). *Team size, boundary-spanning, and communication clarity* [Paper presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Pittsburgh, PA, United States.
- Twyman, M., Wax, A., DeChurch, L., Bowser, G., & Contractor, N. (2015, July). *Looking for leadership: Understanding team assembly in a web technology* [Paper presentation]. The Technologies for Studying and Enabling Teams, Symposium conducted at the Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Pittsburgh, PA, United States.
- Twyman, M., Wax, A., DeChurch, L., & Contractor, N. (2015, June). *Emergence of assembly & leadership networks in teams* [Poster presentation]. The NetSci 2015 International School and Conference on Network Science, Zaragoza, Spain.
- Whalen, R., Huang, Y., Sawant, A., Uzzi, B., & Contractor, N. (2015, June). *Natural language processing, article content & bibliometrics: Predicting high impact science* [Paper presentation]. The Analyzing Scholarly Communication on the Web at ACM WebSci, Oxford, UK.
- Contractor, N. S., Sawant, A., Gado, H., Hernandez, I., DeChurch, L. A., & Shumate, M. (2015, June). *Leveraging who, whom, and how: A social networking tool to scale up health innovation in india* [Paper presentation]. The XXXV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Brighton, UK.
- Huang, Y., Sawant, A., Whalen, R., & Contractor, N. (2015, June). *Automated detection of perfunctory citations: Nuancing impact factors and weighting citation networks to account for citation heterogeneity* [Paper presentation]. The XXXV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Brighton, UK.
- Schechter, A., & Contractor, N. (2015, June). *A multi-relational event model for understanding channel selection* [Paper presentation]. The XXXV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Brighton, UK.
- Wang, L., Lou, T., Huang, Y., & Contractor, N. (2015, June). *Intelligence of crowd: Could voting predict product sales* [Paper presentation]. The Collective Intelligence Conference, Santa Clara, CA, United States.
- Contractor, N. S., DeChurch, L. A., & Hernandez, I. (2015, April). *Leveraging social networks to achieve social influence at scale* [Paper presentation]. Paper presented at the Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Philadelphia, PA, United States.
- Asencio, R., Murase, T., Poole, M. S., McDonald, J., DeChurch, L. A., & Contractor, N. (2015, April). *Searching for team process in behavioral sequences* [Paper presentation]. Paper presented at the Society for Industrial and Organizational Psychology (SIOP) Annual

Conference, Philadelphia, PA, United States.

Asencio, R., Huang, Y., Murase, T., Sawant, A., DeChurch, L., & Contractor, N. (2014, August). *Enabling teams to self-assemble: The my dream team tool* [Paper presentation]. The 5th Annual International Science of Team Science (SciTS) Conference, Austin, TX, United States.

Sawant, A., Gado, H., & Contractor, N. (2014, August). *VIVO team recommender based on linked open data conforming to the VIVO ontology* [Paper presentation]. The 5th Annual VIVO Conference, Austin, TX, United States.

Huang, Y., Zhang, C., Fazel-Zarandi, M., Devlin, H., Lungeanu, A., Wasserman, S., & Contractor, N. (2014, August). *Network imputation in predicting researcher collaboration* [Paper presentation]. The 5th Annual VIVO Conference, Austin, TX, United States.

Diesner, J., Aleyasen, A., Mishra, S., Schechter, A., & Contractor, N. (2014, June). *Comparison of communication networks built from explicit and implicit data* [Paper presentation]. The Computational Approaches to Social Modeling (ChASM 2014), ACM WebScience Conference, Bloomington, IN, United States.

Schechter, A., Leenders, R., DeChurch, L., & Contractor, N. (2014, May). *The sequential structural signatures of success in multiteam systems* [Paper presentation]. The Annual Conference of the International Communication Association (ICA), Seattle, WA, United States.

Sullivan, S., Lungeanu, A., DeChurch, L., & Contractor, N. (2014, May). *An Agent-Based Model (ABM) of the emergence of leadership for innovation in multiteam systems* [Paper presentation]. The Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Honolulu, HI, United States.

Contractor, N., DeChurch, L., Asencio, R., Huang, Y., Murase, T., & Sawant, A. (2014, May). *Enabling teams to self-assemble: The MyDreamTeam builder* [Paper presentation]. The Society for Industrial and Organizational Psychology (SIOP) Annual Conference, Honolulu, HI, United States.

Sullivan, S., Dechurch, L., Zaccaro, S., & Contractor, N. (2014, February). *The structures of leadership reliance networks that facilitate innovation in multiteam systems* [Paper presentation]. The XXXIV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), St. Pete Beach, FL, United States.

Schechter, A., Leenders, R., DeChurch, L., & Contractor, N. (2014, February). *Using relational event networks to understand team & multiteam system interaction processes* [Paper presentation]. The XXXIV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), St. Pete Beach, FL, United States.

Wax, A., Dalrymple, K. M., DeChurch, L. A., Walker, B. N., & Contractor, N. (2014, February).

Interdisciplinary design teams: self-organization and performance [Paper presentation]. The XXXIV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), St. Pete Beach, FL, United States.

Lungeanu, A., Sullivan, S., & Contractor, N. (2014, February). *Compositional, relational and ecosystem influences on team assembly in emerging scientific fields* [Paper presentation]. The XXXIV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), St. Pete Beach, FL, United States.

Weng, C., Huang, Y., & Contractor, N. (2014, February). *A multilevel model to predict organizational turnover* [Paper presentation]. The XXXIV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), St. Pete Beach, FL, United States.

Neidhardt, J., Huang, Y., & Contractor, N. (2014, February). *Assembly factors influencing the victor in head to head short duration team competitions in a multiplayer online battle arena game* [Paper presentation]. The XXXIV Sunbelt Conference of the International Network for Social Network Analysis (INSNA), St. Pete Beach, FL, United States.

Contractor, N., Sharma, A., Singh, L., Hausmann, R., Pieterston, W., & Johnson, Z. (2014, February). *Using social network analysis for scaling up family health solutions in Bihar: A systematic approach to understand government influencers* [Poster presentation]. FICCI Conference on Quality Practices (QUPRAC 2014), Federation House, New Delhi.

Sullivan, S., Lungeanu, A., DeChurch, L., & Contractor, N. (2013, October). *Modeling the emergence of leadership reliance networks* [Poster presentation]. The Institute for Operations Research and Management Science (INFORMS) Annual Meeting, Minneapolis.

Lungeanu, A., Sullivan, S. & Contractor, N. (2013, October). *The formation and evolution of teams in new scientific fields: A hybrid model approach* [Poster presentation]. The Institute for Operations Research and Management Science (INFORMS) Annual Meeting, Minneapolis.

Contractor, N. (2013, September). *Can big data motivate new social science theories and methods?* at the Big D.A.T.A (Data And Theory Advancement) Workshop organized by the Science and Technology Branch of the National Cancer Institute, Bethesda, MD.

Ahmad, M., Keegan, B., Roy, A., Williams, D., Srivastava, J., & Contractor, N. S. (2013, August). *Guilt by association? Network based propagation approaches for gold farmer detection (pp. 1–6)*. Presented at the 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Niagara Falls, Canada.

Sullivan, S., Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2013, June). *Leading innovation over space and time* [Paper presentation]. The ARS'13, Rome, Italy.

Young, L. E. & Contractor, N. (2012, November). *Identifying the ties that inform: Unpacking the relational context of environmental information seeking* [Paper presentation]. The Annual Convention of the National Communication Association (NCA), Environmental Communication Division, Orlando, FL, United States.

Contractor, N. (2012, October). Pre-conference workshop on Social Network Analysis at the 25th Organizational Communication Mini-Conference hosted by the University of Oklahoma, Norman, OK.

Contractor, N. (2012, August). Presented on a panel titled *Building better teams: Innovative approaches to the design and deployment of researcher recommendation systems* at the VIVO 2012 conference, Miami, FL.

Sawant, A., Fazel-Zarandi, M. Kusenda, B., Devlin, H., Eichmann, D., & Contractor, N. (2012, August). *A Collaboration Recommender Based on Linked Open Data Conforming to the VIVO Ontology* [Poster presentation]. VIVO 2012 conference, Miami, FL.

Contractor, N. (2012, August). Participated on a panel titled *Winning nationally competitive grants* at the annual meeting of the Association for Education in Journalism and Mass Communication, Chicago, IL.

Sullivan, S., Leonardi, P., & Contractor, N. (2012, August). *Using agent-based modeling to test conflicting effects on technology adoption within organizations* [Paper presentation]. The Annual Meeting of the Academy of Management, Boston, MA, United States.

Lungeanu, A., Huang, Y., & Contractor, N. (2012, August). *A network perspective on success in collaboration: Stop citing me for our own good?* [Paper presentation]. The Annual Meeting of the Academy of Management, Boston, MA, United States.

Contractor, N. (2012, August). Luncheon address to a joint session of the Doctoral Consortium and the Junior Faculty workshop of the Organizational Communication & Information System (OCIS) Division of the Academy of Management, Boston, MA.

Contractor, N. (2012, August). Presented at professional development workshop *The innovations in team innovation: The science of teams and the science in teams* at the Annual Meeting of the Academy of Management, Boston, MA.

Contractor, N. (2012, July). Participated on a panel titled *Reflections on collaboration: "What does the evidence base from the network, institutional and organizational change literature say about fostering collaboration?"* at the 9th Annual Aspen Conference, Colorado Springs, CO.

Contractor, N. (2012, July). Participated in a Microsoft Research workshop titled *Web observatories for discovery informatics*, Redmond, WA.

Contractor, N. (2012, July). Participated in a panel titled *Bridging boundaries towards collaborative team science* at the annual conference of the Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Chicago, IL.

Contractor, N. (2012, July). Participated in a panel titled *Beyond the small group: Cohesion in complex teams* at the Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Chicago, IL.

Contractor, N. (June 28, 2012). *Social network theories and methods*. Presented day long workshop at the Tata Institute of Social Sciences, Mumbai, India.

Contractor, N., Zhu, M., & Wasserman, S. (2012, June). *Correspondence Analysis in Multilevel Networks* [Paper presentation]. The Multilevel Social Networks Symposium, organized by the Multilevel Network Modeling Group, Manchester, UK.

Contractor, N. (2012, June). *Can big data motivate new theories and methods?* [Paper presentation]. The UK Economic and Social Research Council (ESRC) Data Horizons workshop as part of the ESRC Digital Social Research program, Manchester, UK.

Contractor, N., DeChurch, L., Murase, T., & Wax, A. (2012, May). *Origins and consequences of relational pluralism in multiteam systems* [Paper presentation]. The Annual Conference of the International Communication Association (ICA), Phoenix, AZ, United States.

Contractor, N. (2012, May). Respondent on a panel titled "*Knowledge and expertise: communication in the management and performance of knowledge*" at the Annual Conference of the International Communication Association (ICA), Phoenix, AZ.

Contractor, N. (2012, May). Presentation at the International Communication Association Organizational Communication Division Junior Scholar workshop, Phoenix, AZ.

Pieterse, W., & Contractor N. (2012, April). *Web science in the SONIC research group*. Presentation at World Wide Web 2012, Lyon, France.

Lungeanu, A., Huang, Y., & Contractor, N. (2012, March). *A network perspective on success in collaboration: Stop citing me for your own good?* [Paper presentation]. XXXII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Redondo Beach, CA, United States.

Lungeanu, A., Murase, M., Carter, D., & Contractor, N. (2012, March). *A hypergraph approach to understanding the assembly of scientific research teams* [Paper presentation]. XXXII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Redondo Beach, CA, United States.

- Zhu, M., Lungeanu, A., & Contractor, N. (2012, March). *Growth of new scientific fields: The case of oncofertility* [Paper presentation]. XXXII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Redondo Beach, CA, United States.
- Huang, Y., Zhang, C., Fazel-Zarandi, M., Devlin, H., Lungeanu, A., Wasserman, S., & Contractor, N. (2012, March). *Comparing efficacy of link prediction models for expert recommender systems* [Paper presentation]. XXXII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Redondo Beach, CA, United States.
- Chang, C., Lungeanu, A., Keegan, B., Gilborne, J., & Contractor, N. (2012, March). *Multidimensional networks in crowdsourced collaboration* [Paper presentation]. XXXII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Redondo Beach, CA, United States.
- Vashevko, A., Chang, C., & Contractor, N. (2012, March). *Assembling teams for success: How research teams win funding* [Paper presentation]. XXXII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Redondo Beach, CA, United States.
- Zhu, M., Wax, A., DeChurch, L., & Contractor, N. (2012, March). *Teamwork at the hyper-edge: Impact of team hyperedge structures on performance* [Paper presentation]. XXXII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Redondo Beach, CA, United States.
- Pieterse, W., Johnson, Z., & Contractor, N. (2012, March). *Using the all new C-IKNOW to collect survey network data and explore these networks* [Paper presentation]. Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Redondo Beach, CA, United States.
- Keegan, B., Gergle, D., & Contractor, N. (2012, February). *Do editors or articles drive collaboration? Multilevel statistical network analysis of Wikipedia coauthorship* [Paper presentation]. The ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW'12), Seattle, WA, United States.
- Contractor, N. (2012, January). *Using multi-theoretical multilevel models to understand and enable communities* [Paper presentation]. The Workshop on Network Science in Electrical Engineering and Computer Science, Indian Institute of Science, Bangalore, India. <http://www.icts.res.in/program/details/283/>
- Contractor, N., Lungeanu, A., & Huang, Y. (2011, June). *Understanding the assembly of interdisciplinary scientific teams* [Paper presentation]. The Innovation, Organizations, and Society: A Lambert Family Communication Conference, University of Chicago, Chicago, IL, United States.

- Foucault Welles, B. & Contractor, N. (2011, November). *From strangers to friends online: A mixed methods investigation of friendship formation on the internet* [Paper presentation]. The Annual Convention of the National Communication Association (NCA), New Orleans, LA, United States.
- Merrill, N., Foucault Welles, B. & Contractor, N. (2011, November). *Virtual group commitment: An examination of factors leading to group donations in second life* [Paper presentation]. The Annual Convention of the National Communication Association (NCA), New Orleans, LA, United States.
- Contractor, N. (2011, August). Using a computational social science approach to understand networks. Panel titled *Across disciplinary boundaries: Recent contributions to mathematical sociology from "outside."* Annual meeting of the American Sociological Association, Las Vegas, NV.
- Huang, M., Margolin, D., Ognyanova, K., Huang, Y., & Contractor, N. (2011, August). *Understanding and enabling network dynamics in virtual communities* [Paper presentation]. The Annual Meeting of the Academy of Management, San Antonio, TX, United States.
- Contractor, N. (2011, July). *Teamwork in virtual organizations* [Poster presentation]. The Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Minneapolis, MN.
- Contractor, N. (2011, July). *Challenges in studying groups*, Panel on Team Research and Team Science. Interdisciplinary Network for Group Research (INGRoup) Annual Meeting, Minneapolis, MN.
- McGuinness, D. L., Shaikh, A. R., Moser, R., Hesse, B. W., Morgan, G. D., Auguston, E. M., Hunt, Y., Tatalovich, Z., Willis, G., Blake, K., Courtney, P., Finney, L., Sanders, A., Ding, L., Lebo, T., McCusker, J., Contractor, N., Huang, Y., Yao, Y., & Devlin, H. (2011, June). *A semantically-enabled community health portal for cancer prevention and control* [Poster presentation]. Web Science Conference 2011, Koblenz, Germany.
- Ding, L., Whalen, R., McGuinness, D. L., & Contractor, N. (2011, June). *Government agency network discovery via hyperlinks and datalinks* [Poster presentation]. Web Science Conference 2011, Koblenz, Germany.
- Keegan, B., Ahmed, M. A., Williams, D., Srivastava, J., & Contractor, N. (2011, June). *Sic transit gloria mundi virtuali? Promise and peril in the computational social science of clandestine organizing* [Poster presentation]. Web Science Conference 2011, Koblenz, Germany.
- Keegan, B., Ahmad, M., Williams, D., Srivastava, J., & Contractor, N. (2011, April). *Mapping gold farming back to offline clandestine organizations: Methodological, theoretical, and*

ethical challenges [Poster presentation]. Game Behind the Game, School of Communication and Information at Rutgers, New Brunswick, NJ.

Keegan, B., Gergle, D., & Contractor, N. (2011, March). *A multi-theoretical, multi-level model of high tempo collaboration in an online community* [Poster presentation]. XXXI Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Tampa, FL.

Contractor, N. (2011, February), *Socnets 101: The interconnection of people through a network* [Poster presentation]. Midwest Private Equity Conference, Chicago, IL.

Contractor, N. (2011). *Understanding and enabling networks in 21st century organizations* [Poster presentation]. Global Engagement Summit, Evanston, IL.

Contractor, N. (2010, September). *Developing web science to understand and enable 21st century multidimensional networks* [Poster presentation]. The "Web Science: A New Frontier" Conference, Royal Society, London.

Huang, Y. Chen, R. B., Mahmassani, H. S. & Contractor, N. (2010, November). *Encounter in virtual space* [Poster presentation]. Institute for Operations Research and Management Science (INFORMS) Annual Meeting, Austin, TX.

Zhu, M., Contractor, N., & Iravani, S. (2010, November). *Assembly of successful teams: Insights from the study of MMORPGs* [Poster presentation]. Institute for Operations Research and Management Science (INFORMS) Annual Meeting, Austin, TX.

Margolin, D., Ognyanova, K., Shen, C., Huang, M., Huang, Y., & Contractor, N. (2010, July). *Team assembly and scientific collaboration on NanoHub* [Paper presentation]. The XXX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Riva del Garda, Trento, Italy.

Foucault Welles, B., Van Devender, A., & Contractor, N. (2010, July). *Is a "friend" a friend?: comparing the structure of online and offline friendship networks* [Poster presentation]. XXX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Riva del Garda, Trento, Italy.

Ognyanova, K., Huang, M., Huang, Y., Margolin, D., Shen, C., & Contractor, N. S. (2010, July). *Team assembly and scientific collaboration on nanoHub* [Poster presentation]. XXX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Riva del Garda, Trento, Italy.

Church, K., Pujol, J. M., Smyth, B., & Contractor, N. (2010, September). *MobileHCI'10 workshop summary: Social mobile web* [Paper presentation]. MobileHCI'10, Lisbon, Portugal.

Contractor, N. (2010, August). OCIS Doctoral Consortium, Annual Meeting of the Academy of Management, Montreal, Canada.

Huang, M., Huang, Y., Margolin, D., Ognyanova, K., Shen, C., & Contractor, N. (2010, August). *The effects of diversity and repeat collaboration on team performance in distributed nanoscientist teams* [Paper presentation]. The Annual Meeting of the Academy of Management, Montréal, Canada.

Contractor, N. (2010, June). Communication & Technology Division Doctoral Consortium, 60th Annual Conference of the International Communication Association, Singapore.

Huang, M., Barbour, J., Su, C., & Contractor, N. S. (2010, June). *Why would you save your files in a group folder? A multilevel analysis of contextual influences on information provision to work group digital databases*. 60th Annual Conference of the International Communication Association, Singapore. **[Top paper award]**.

Chen, R. B., Mahmassani, H. S., Huang, Y., Contractor, N., & Williams, D. (2010, January). *Travel and activity behaviors in virtual world environments* [Paper presentation]. The 89th Annual Meeting of the Transportation Research Board (TRB2010), Washington, D.C., United States.

Foucault Welles, B., Van Devender, A., & Contractor, N. (2010, April). *Is a "friend" a friend? Investigating the structure of friendship networks in virtual worlds*[Paper presentation]. The 28th International Conference on Human Factors in Computing Systems (CHI), Atlanta, GA, United States.

Huang, M., Liu, J., Wang, A., & Contractor N. (2010, July). *The impacts of co-authorship networks and citation networks in "team science"* [Poster presentation]. Interdisciplinary Network for Group Research Conference (INGRoup), Washington, D.C., United States.

Huang, M., Huang, Y., Ognyanova, K., Margolin, D., Shen, C., & Contractor, N. S. (2010, June). *Size, diversity, & beyond: A mediated model of team composition and performance in "team science"* [Poster presentation]. 60th Annual Conference of the International Communication Association, Singapore.

Huang, M., Huang, Y., Ognyanova, K., Margolin, D., Shen, C., & Contractor, N. S. (2010, August). *The effects of diversity and repeat collaboration on team performance in distributed nanoscientist teams* [Poster presentation]. Academy of Management Annual Conference, Montreal, Canada.

Mahmassani, H. S., Chen, R. B., Huang, Y., Contractor, N., & Williams, D. (2010, January). *Time to play? Activity engagement in multiplayer online role-playing games* [Poster presentation]. The 89th Annual Meeting of the Transportation Research Board (TRB2010), Washington, D.C., United States.

Pieterse, W., Young, L., Hsieh, Y., Wang, H., & Contractor, N. (2010, July). *Networks in citizen-government interaction: Exploring how social networks affect information search*

behavior [Poster presentation]. The Annual International Professional Communication Conference (IPCC), University of Twente, Netherlands.

Contractor, N., Monge, P., & Leonardi, P. (2010, February). *Moving technology inside the network* [Poster presentation]. Second International Workshop on Network Theory: Multidimensional in the Digital Age, Los Angeles, CA, United States.

Yuan, Y. C., Fulk, J., Monge, P., & Contractor, N. (2009, November). *Transactive memory systems in work teams: A multilevel investigation of the impact of expertise directory development on expertise exchange* [Poster presentation]. International Conference on Administrative Development: Towards Excellence in Public Sector Performance, Riyadh, Kingdom of Saudi Arabia.

Contractor, N. (2009, April). *Understanding and enabling team assembly* [Poster presentation]. 2nd Annual International Science of Team Science Conference, Chicago, IL, United States.

Contractor, N. (2009, February). *Understanding virtual world environments* [Poster presentation]. Mardi Gras Conference 2009, Virtual Worlds: New Realms for Culture, Creativity, Commerce, Computation and Communication, Baton Rouge, LA, United States.

Contractor, N. (2009, May). Presenter at the Doctoral Consortium for the Organizational Communication Division of the International Communication Association (ICA), Chicago, IL, United States.

Castronova, E., Williams, D., Huang, Y., Shen, C., Keegan, B., Ratan, R. A., Xiong, L., & Contractor, N. (2009, May). *As real as real? Macroeconomic behavior in a large-scale virtual world* [Poster presentation]. The 59th Annual Conference of the International Communication Association (ICA), Chicago, IL, United States.

Foucault, B., Zhu, M., Huang, Y., Atrash, Z., & Contractor, N. (2009, May). *Will you be my friend? An exploration of adolescent friendship online in Teen Second Life* [Poster presentation]. 59th Annual Conference of the International Communication Association (ICA), Chicago, IL, United States.

Huang, Y., Shen, C., & Contractor, N. (2009, March). *The role of proximity and homophily in virtual world networks* [Poster presentation]. XXIX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), San Diego, CA, United States.

Huang, Y., Yao, Y., & Contractor, N. (2009, March). *Using p*/ERGM techniques to implement a multitheoretical multilevel network recommender system* [Poster presentation]. XXIX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), San Diego, CA.

Huang, Y., Shen, C., & Contractor, N. (2009, July). *Virtually there: Exploring proximity and*

- homophily in a virtual world* [Poster presentation]. The Fourth Annual INGRoup Conference, Colorado Springs, CO.
- Huang, Y., Zhu, M., Keegan, B., Wang, J., Shen, C., Pathak, N., & Contractor, N. (2009, July). *The formation of combat groups in online games* [Poster presentation]. The Fourth Annual INGRoup Conference, Colorado Springs, CO.
- Huang, Y., Shen, C., Williams, D., & Contractor, N. (2009, August). *Virtually There II: Exploring proximity and homophily in a virtual world* [Paper presentation]. The Symposium on Social Intelligence and Networking (SIN-09), Vancouver, Canada.
- Ahmad, M. A., Keegan, B., Srivastava, J., Williams, D., & Contractor, N. (2009, August). *Mining for gold farmers: Automatic detection of deviant players in MMOGS* [Paper presentation]. The Symposium on Social Intelligence and Networking (SIN-09), Vancouver, Canada.
- Huang, Y., Zhu, M., Wang, J., Pathak, N., Shen, C., Keegan, B., Williams, D., & Contractor, N. (2009, August). *The formation of task-oriented groups: Exploring combat activities in online games* [Paper presentation]. The 2009 IEEE International Conference on Social Computing (SocialCom-09), Vancouver, Canada.
- Su, C., Huang, M., & Contractor, N. S. (2009, May). *Understanding the structures, antecedents, and outcomes of organizational learning and knowledge transfer: A multi-theoretical and multilevel network analysis* [Poster presentation]. International Communication Association 59th Annual Conference, Chicago, IL.
- Wang, J., & Contractor, N. (2009, July). *Knowledge seeking and provision in work teams across multiple knowledge areas: A network formulation to test and extend transactive memory theory* [Paper presentation]. Top Paper Award at the Fourth Annual INGRoup Conference, Colorado Springs, CO.
- Wang, J., Huffaker, D. A., Treem, J. W., Fullerton, L., Ahmad, M. A., Poole, M. S., & Contractor, N. S. (2009, May). *Focused on the prize: Characteristics of experts in virtual worlds* [Poster presentation]. the 59th Annual Conference of the International Communication Association, Chicago, IL.
- Zhu, M., & Contractor, N. (2009, May). *Work and life: The role of networks in emergency response organizations*, the 59th Annual Conference of the International Communication Association, Chicago, IL.
- Whitbred, R., Fonti, F., Contractor, N., & Steglich, C. (2008, November). *From micro-actions to macro-structure: A structural approach to the evolution of organizational networks* [Paper presentation]. Top Paper Award at the 94th Annual Convention of the National Communication Association (NCA), San Diego, CA.
- Agneessens, F., Contractor, N., & Hunter, D. (2008, September). *Extensions of the MTML*

- approach: triadic vs. tetratic effects* [Poster presentation]. Presentation at the 7th International Conference on Social Science Methodology, Naples, Italy.
- Huang, Y., & Contractor, N. (2008, October). *Mirror or a second life: Friendship and groups in the virtual world* [Poster presentation]. Institute for Operations Research and Management Science (INFORMS) Annual Meeting, Washington, D.C.
- Contractor, N. (2008, June). *Using tobacco research as an exemplar domain for a population sciences initiative on the grid: PopSciGrid- putting NHIS and HINTS data on the caGrid* [Poster presentation]. The caBIG 5th Annual Meeting, Washington, D.C.
- Huang, Y., & Contractor, N. (2008, October). *Recommender systems based on social drivers* [Poster presentation]. Institute for Operations Research and Management Science (INFORMS) Annual Meeting, Washington, D.C.
- Huang, Y., Contractor, N., & Yao, Y. (2008, May). *C-INKNOW: recommendation based on social networks* [Poster presentation]. The 2008 International Conference on Digital Government Research, Digital Government Society of North America, Montreal, Canada.
- Huang, Y., Yao, Y., & Contractor, N. (2008). *Cyberinfrastructure Knowledge Networks on the Web (CIKNOW)* [Poster presentation]. XXVIII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), ST. Pete Beach, FL.
- Zhu, M., & Contractor, N. (2008, October). *The role of networks in the emergency response organizations* [Poster presentation]. Institute for Operations Research and Management Science (INFORMS) Annual Meeting, Washington, D.C.
- Zhu, M., & Contractor, N. (2008, May). *Socio-Technical P2P network for first responders*, Award-winning Student Poster Presenter, Complexity Conference, Northwestern Institute on Complex Systems (NICO), Evanston, IL.
- Contractor, N. (2007, April). *Theorizing social processes in multidimensional networks*. Symposium on Network Science: New Directions following the National Academy of Science/National Research Council report organized by the Army Research Institute and hosted by the U.S. Military Academy, West Point, NY.
- Contractor, N. (2007, March). *MTML meets Web 2.0*. Symposium on Self-organizing Networks and Communities, Cornell University, Ithaca, NY.
- Contractor, N. & Green, H. D. (2007, May). *Cyberinfrastructure knowledge networks on the web a recommender system for locating resources in a knowledge network* [Poster presentation]. The 8th Annual International Digital Government Research Conference, Philadelphia, PA.
- Green, H. D., Contractor, N., & Yao, Y. (2006, December). *C-INKNOW: Cyberinfrastructure*

Knowledge Networks on the Web. A social network enabled recommender system for locating resources in cyber infrastructures [Poster presentation]. The annual meeting of the American Geophysical Union, San Francisco, CA.

Minsker, B., Myers, J., Marikos, M., Wentling, T., Downey, S., Liu, Y., Bajcsy, P., Kooper, R., Marini, L., Contractor, N., Green, H., Yao, Y., & Futrelle, J. (2006, November). *Environmental cyberinfrastructure demonstration project: Creating cyberenvironments for environmental engineering and hydrological science communities* [Paper presentation]. Supercomputing 2006 (SC 06), Tampa, FL.

Ostergaard, J., Wali, A., Contractor, N., Green, H.D., Mason, S., Severson, R. & McClure, H. (2006, November). *Artistic, cultural and social network assets of recent mexican immigrants in chicago* [Paper presentation]. The annual meeting of the Association of Collegiate Schools of Planning, Fort Worth, TX.

Contractor, N., Butts, C., Harper, S., & Auvil, L. (2006, August). *Mapping and analyzing emergent multi-organizational networks in the hurricane Katrina response* [Paper presentation]. The NSF Conference on "Methods for the Study of Social Networks during Disasters" Crystal City, VA.

Contractor, N. (2006, June). Panelist on *The network society and evolving communication theory* at the Annual convention of the International Communication Association, Dresden, Germany.

Contractor, N. (2006, May). *Multi-theoretical multilevel (MTML) models to study the emergence of networks* [Paper presentation]. NetSci 2006 conference, Bloomington, IN.

Palazzolo, E., Leenders, R., & Contractor, N. (2006, April). *Multilevel modeling of retrieval behaviors in transactive memory networks* [Paper presentation]. The XXVI Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Vancouver, Canada.

Wotal, B., Green, H., Williams, D., & Contractor, N. (2006, April). *WoW!: The dynamics of knowledge networks in Massively Multiplayer Online Role Playing Games (MMORPG)* [Paper presentation]. The XXVI Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Vancouver, Canada.

McClure, H., Wali, A., Severson, R., Green, H., & Contractor, N. (2006, April). *Ethnography and social network analysis as complimentary methodologies for the study of artistic, cultural and networking practices among recent mexican immigrants in the chicago metropolitan area* [Paper presentation]. The XXVI Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Vancouver, Canada.

Contractor, N. (2006, April). *Enabling knowledge networks in Communities of Practice* [Symposium presentation]. 2006 Communities of Practice Network (CoPNet)

Symposium, Procter & Gamble, Cincinnati, OH.

Pathak, N., Mane, S., Srivastava, J., & Contractor, N. S. (2006, April). *Knowledge perception analysis in a social network*. Workshop on Link Analysis, Counter-Terrorism and Security, at the 6th SIAM International Conference on Data Mining (SDM 06), Bethesda, MD.

Contractor, N. (2006, April). *Mapping knowledge networks: The case of the Santa Barbara forum* [Poster presentation]. 2006 Santa Barbara forum on Digital Transitions: Social Collaboration & Dynamic Communities, Santa Barbara, CA.

Contractor, N. (2006, March). *Social networks theory and practice in public health*. Invited panel on "Social networks and public health" at the annual meeting of the American Academy of Health Behavior, Carmel, CA.

Contractor, N. (2005, December). *Using Cyberinfrastructure to enable social networks in public health*. Annual meeting of the Tobacco Harm Reduction Network, Boston, MA.

Contractor, N. (2005, November). *Network building for e-governance*. Panel on e-Governance in Developing Countries at the World Summit on Information Society, Tunis, Tunisia.

Contractor, N. (2005, June). *Analysis of social networks in digital government*. National Infrastructure for Community Statistics (NICS) Community of Practice Research Symposium, Brookings Institute, Washington, D.C.

Contractor, N. (2005, June): *International collaboration in e-Science*. Panel at the 1st International e-social science, Manchester, UK.

Contractor, N. (2005, June). *Social networks and local governments*. eGovernance Catalonia Forum '05: Public Administration in the Age of the Internet, Barcelona, Spain.
<http://www.gencat.net/forum-egovernance/2005/eng/programa.htm>

Contractor, N. (2005, May). *Maximizing the opportunities and funding for international research*. Organizational Communication Doctoral Consortium on "Research and Teaching in the Global Context," Annual Convention of the International Communication Association, New York, NY.

Contractor, N., Green, H., & Aronson, E. (April 21, 2005). *Mapping cultural and network assets in three Chicago communities* [Poster presentation]. UIUC Community Informatics Series, Champaign, IL.

Contractor, N. (2005, March). *Co-evolution of knowledge networks in 21st century organizational forms* [Symposium presentation]. Symposium organized by the Fundación Centro Internacional de Formación Financiera at the University de Alcala, Madrid, Spain.

Contractor, N. (2005, March). *ICT support in emergency management* [Poster presentation].

Eastern Europe eGov 2005, Budapest, Hungary.

Contractor, N. (2004, December). *p* Statistical models for testing multi-theoretical multilevel (MTML) network hypotheses*. International Conference on the Future of Statistical Theory, Practice and Education, Hyderabad, India.

Contractor, N., Brandon, D., Huang, M., Palazzolo, E., Steinley, D., Su, C. Suri, V. R., Swarbrick, S. A., Templin, J., & Wasserman, S. (2004, November). *Extensions to information retrieval in transactive memory systems* [Paper presentation]. The Annual Convention of the National Communication Association, Chicago, IL.

Contractor, N. (2004, October). Closing Panel. The Agent 2004 Conference On Social Dynamics: Interaction, Reflexivity And Emergence, University of Chicago, Chicago, IL.

Contractor, N (2004, May). *Network theory and small groups*. In a panel titled "Theories of Small Groups: Integrative Perspectives." Annual convention of the International Communication Association, New Orleans, LA.

Su, C., Steinley, D., Klein, K. J., & Contractor, N. (2004, May). *Co-evolution of team members' attachment to the team and team interpersonal networks* [Symposium presentation]. [Symposium on dynamics of network and behavior](#), Portorož, Slovenia.

Contractor, N. (2003, October). *Challenges and opportunities for international collaboration on information society and technology* [Poster presentation]. E2003, Annual Conference of the European Union Information Society and Technology Program, Bologna, Italy.

Contractor, N. (2003, October). *Social network application in data mining* [Poster presentation]. Data Mining 2003 Conference, Las Vegas, NV.

Contractor, N. (2003, August). Facilitator, Professional Development Workshop on *Knowledge networks and 21st century organizational forms* at the Annual Meeting of the Academy of Management, Seattle, WA.

Contractor, N. (2003, May). Roundtable participant. [Integrating the theoretical and the practical: The KDI story](#). Annual convention of the International Communication Association, San Diego, CA.

Contractor, N. (2003, May). *Developing a socio-technical research agenda for international digital government*. In a session titled "Challenges and Opportunities in International Digital Government Research" at the Digital Government 2003 Conference, University of Southern California, Los Angeles, CA.

Contractor, N., Huang, M., Palazzolo, E., Steinley, D., Su, C., Suri, R., Swarbrick, A., & Templin, J. (2003, February). *Multi-Theoretical Multi-Level (MTML) models for understanding the emergence of knowledge networks* [Paper presentation]. American Association for the

Advancement of Science session on Social Networks, Science, & Society, Denver, CO.

Monge, P. R., & Contractor, N. (2003, February). *Coevolutionary principles for 21st century organizational networks* [Paper presentation]. The XXIII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Cancun, Mexico.

Contractor, N., Huang, M., Palazzolo, E., Steinley, D., Su, C., Suri, R., Swarbrick, A., & Templin, J. (2003, February). *Multi-Theoretical Multi-Level (MTML) models for understanding the emergence of knowledge networks* [Paper presentation]. The XXIII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Cancun, Mexico.

Contractor, N. (November 11, 2002). *Designing networks of excellence* [Poster presentation]. [European Research 2002 Conference](http://europa.eu.int/comm/research/conferences/2002/forum-monday-pm_en.html): The European Research Area and the Framework Programme, Brussels, Belgium.
http://europa.eu.int/comm/research/conferences/2002/forum-monday-pm_en.html

Contractor, N., & Monge, P. R. (November 8, 2002). *Using multi-theoretical multilevel models to study adversarial networks* [Symposium presentation]. National Academy of Sciences Symposium on Dynamic Social Network Analysis, Washington, D.C.

Contractor, N. (2002, October). *Role of knowledge networks in fostering community* [Poster presentation]. International conference on "Virtual Reality and Ethics" at the University of Illinois at Urbana-Champaign, Urbana, IL.

Contractor, N., Patel, S., & Mincyte, D. (2002, October). [University of Illinois sandbox project](http://government.hp.com/docs/UI_UC.ppt). Hewlett Packard University Mobile Technology Solutions Conference, Palo Alto, CA.
http://government.hp.com/docs/UI_UC.ppt.

Contractor, N. (2002, October). *Challenges and opportunities in EU-US research collaborations* [Poster presentation]. e2002: eBusiness and e-Work conference, sponsored by European Union Information Society Technology Program, Prague, Czech Republic.

Contractor, N. (2002, October). Respondent to Kathleen Carley's presentation titled "Simulating Society: The Tension between Transparency and Veridicality." Agent 2002 conference jointly hosted by Argonne National Laboratory and University of Chicago, Chicago, IL.

Carley, K., Borgatti, S., & Contractor, N. (September 11, 2002). *Coordinating response to complex dynamic problems involving network information*. Workshop on "Managing knowledge intensive dynamics systems", co-sponsored by the National Science Foundation and the National Security Agency, Washington, D.C.

Contractor, N. (2002, August). Table Presider. Roundtable on Organizational Communication/Representation. Annual convention of the American Sociological Association, Chicago, IL.

Palazzolo, E. T., Contractor, N. S., & Hollingshead, A. B. (2002, August). *A network analysis of information retrieval in transactive memory systems* [Paper presentation]. Knowledge Networks at the Annual Meeting of the Academy of Management, Denver, CO.

Contractor, N. (2002, August). *Faculty advisor*. Junior Faculty Consortium sponsored by the Organizational Communication & Information System/Technology, Innovation and Management Divisions of the Annual Meeting of the Academy of Management, Denver, CO.

Contractor, N. (2002, June). *Computational models of organizational networks*. NASA-Ames Research Center, Ames, CA.

Palazzolo, E. T., Ghate, A., Dandi, R., Mahalingam, A., Contractor, N., & Levitt, R., (2002, June). *Modeling 21st century project teams: Docking workflow and knowledge network computational models* [Paper presentation]. The Annual Conference on Computational Analysis of Social and Organizational Systems, Carnegie-Mellon University, Pittsburgh, PA.

Contractor, N. (2002, May). *Social mechanisms that facilitate the creation and maintenance of virtual networks among government agencies* [Poster presentation]. National Conference for Digital Government Research. Co-Sponsored by the National Science Foundation, Los Angeles, CA.

Contractor, N. (2002, May). *Designing high impact innovation networks* [Poster presentation]. Procter & Gamble, Corporate Innovation, Cincinnati, OH.

Contractor, N. (2002, May). *A multi-theoretical multi-Level agent model of the co-evolution of communication and knowledge networks* [Paper presentation]. The "Agent-based Modeling in the Social Sciences" conference, Lake Arrowhead, CA.

Contractor, N. (2002, May). *Advances in computational modeling of social networks* [Poster presentation]. Unclassified briefing at the Joint Warfare Analysis Center, Dahlgren, VA.

Contractor, N. (2002, March). *Digital video applications in the classroom* [Poster presentation]. [Instructional Technology Lab 2002 Conference](#), University of Illinois at Chicago, Chicago, IL.

Contractor, N. (2002, January). *The future of virtual collaboration: Perspectives on an agenda for action* [Poster presentation]. Internet2 Virtual Briefing. Internet2 Consortium, Ann Arbor, MI.

Contractor, N. (2001, November). Respondent on a panel titled "Information, Media and Technologies in Organizations" [Poster presentation]. Annual Convention of the National Communication Association, Atlanta, GA.

- Contractor, N. (2001, August). *EQUAD: Using advanced collaboration technologies for cooperative learning* [Poster presentation]. Plenary panel on “Co-Teaching and Co-Learning in Higher Education” at the 17th Annual Conference on Distance Teaching and Learning University of Wisconsin, Madison, WI.
- Contractor, N. (2000, October). [*Advanced collaboration tools to support multi-university collaborative learning in organizational communication*](#) [Poster presentation]. Megaconference 2000: The world’s first online conference on the use of teleconferencing in research and education.
- Contractor, N. (2000, June). *New media and organizing* [Paper presentation]. The meeting of the International Communication Association, Acapulco, Mexico.
- Contractor, N., Stohl, C., & Monge, P. R. (2000, June). *E-Quad: Experiences with advanced collaboration tools to support graduate education* [Paper presentation]. The meeting of the International Communication Association, Acapulco, Mexico.
- Contractor, N., Wasserman, S., & Faust, K. (2000, June). *Testing multi-level, multi-theoretical hypotheses about networks in 21st century organizational forms: An analytic framework and empirical example* [Paper presentation]. Top 3 Paper in the Organizational Communication Division, International Communication Association annual convention, Acapulco, Mexico.
- Contractor, N. (2000, June). *ICTs and Organizing*. Las ICTs y la organización. In session Bridging the Subdisciplines: Communication Technology Research and Its Prospects. Uniendo las Subdisciplinas: La Investigación Sobre las Tecnologías de Comunicación y sus Perspectivas. International Communication Association annual convention, Acapulco, Mexico.
- Houston, R., Rice, R., Whitbred, R., & Contractor, N. (2000, June). *From self-production to social production: An exploratory study of self-producing systems and job satisfaction at the western transit authority* [Poster presentation]. International Communication Association annual convention, Acapulco, Mexico.
- Contractor, N. (2000, June). Respondent. *Measures and new measurement in organizational communication* [Poster presentation]. International Communication Association annual convention, Acapulco, Mexico.
- Contractor, N. (2000, May). *E-communities reconfiguring traditional communities* [Poster presentation]. Major Cities of Europe Conference, Nice, France.
- Contractor, N. (2000, April). *Introduction to and applications of P** [Paper presentation]. The XX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Vancouver, Canada.

- Fonti, F., Whitbred, R., & Contractor, N. (2000, April). *Adding perception to the landscape: Introducing cognitive social capital* [Paper presentation]. The XX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Vancouver, Canada.
- Contractor, N., & Wasserman, S. (2000, April). *Reconsidering the arbitrary specification of parameters in the computational modeling of organizational networks*. The XX Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Vancouver, Canada.
- Contractor, N. (2000, April). *Cooperative learning via Internet2*. Presentation made from UIUC via Internet2 videoconference to the Tech Forum 2000, Columbus, OH.
- Contractor, N. (2000, April). *Knowledge networks* [Poster presentation]. The Caught in the Web II conference, Annenberg School for Communication, University of Pennsylvania, Philadelphia, PA.
- Contractor, N. (2000, February). *Structuration theory and self-organizing networks* [Paper presentation]. The Organization Science Winter Conference, Keystone, CO.
- Contractor, N. (1999, November). *Emerging web technologies for the tourism industry*. Invited panelist at the Workshop on Advertising Strategy and Information Technology in Tourism, National Laboratory for Tourism and eCommerce (NLTEC), Champaign-Urbana, Champaign, IL.
- Contractor, N. (1999, November). *What's new about new media?* Panel at the Annual Convention of the National Communication Association (NCA), Chicago, IL.
- Contractor, N. (1999, November). *Advanced collaboration tools to support multi-university distributed learning in organizational communication*. Panel at the Annual Convention of the National Communication Association (NCA), Chicago, IL.
- Contractor, N. (1999, November). *Doing sponsored research in organizations: The ethical and practical implications of coloring outside the lines*. Panel at the Annual Convention of the National Communication Association (NCA), Chicago, IL.
- Contractor, N. (1999, November). Respondent, *Top 3 competitive papers in Organizational Communication Division*. Panel at the Annual Convention of the National Communication Association (NCA), Chicago, IL.
- Contractor, N. (1999, October). *Collaborative learning in graduate education: The case for greater bandwidth* [Poster presentation]. The Internet2 Fall 1999 meeting, Seattle, WA.
- Contractor, N., & Bishop, A. (1999, September). [Reconfiguring community networks: The case of PrairieKNOW](#) [Symposium presentation]. The Kyoto Meeting on Digital Cities, Kyoto Research Park, Kyoto, Japan.

Contractor, N., Bishop, A., & Zink, D. (1999, August). *PrairieKNOW: A tool to assist and study the creation, maintenance, and dissolution of community networks* [Paper presentation]. HCI International '99 (the 8th International Conference on Human-Computer Interaction), Munich, Germany.

Contractor, N. (1999, May). *Supporting social and knowledge capital in organizations* [Paper presentation]. The meeting of the International Communication Association, San Francisco, CA.

Contractor, N. (1999, May). Respondent, *Top 3 competitive papers in Organizational Communication*, The International Communication Association, San Francisco, CA.

Contractor, N. (1999, May). *Emergence of communication and knowledge networks in 21st century organizational forms*. Invited presentation at the Doctoral Consortium sponsored by the International Communication Association's Organizational Communication Division, San Francisco, CA.

Contractor, N. (1999, May). *Utah transit authority communication network study: Linking to better service* [Paper presentation]. The Consumer Relations Panel at the meeting of the American Public Transit Association, Toronto, Canada.

Contractor, N. (1999, April). *Tools to support knowledge networks on the web*. Invited presentation at the U.S. Federal Web Consortium '99 meeting, Washington, D.C.

Contractor, N. (1999, February). *The use of P* techniques for testing multi-level network hypotheses*. Paper presented at the Sunbelt Social Networks Conference, Charleston, SC.

Contractor, N. & Fulk, J. (1998, November). *Organizations and communication technology: Lessons learned and new visions* [Poster presentation]. Invited presentation at the Annual Convention of the National Communication Association (NCA), NY.

Contractor, N. S., Whitbred, R., Fonti, F., Hyatt, A., Jones, P., & O'Keefe, B. (1998, July). *Self-organizing communication networks in organizations: Validation of a computational model using exogenous and endogenous theoretical mechanisms* [Paper presentation]. The meeting of the International Communication Association, Jerusalem, Israel.

Contractor, N. S., Fonti, F., & Whitbred, R. (1998, July). *Focusing on the forest when you can't see all the trees II - Antecedents and outcomes of Cognitive Aggregated Structures (CAS) in a virtual organization* [Paper presentation]. The National Communication Association/International Communication Association Conference on "Communication: Organizing for the Future," Rome, Italy.

Contractor, N. S., Zink, D., & Chan, M. (1998, May). *IKNOW: A tool to visualize knowledge networks* [Paper presentation]. The XVIII Sunbelt Conference of the International

Network for Social Network Analysis (INSNA), Barcelona, Spain.

Contractor, N. S., Fonti, F., & Whitbred, R. (1998, May). *Focusing on the forest when you can't see all the trees I - Antecedents of Cognitive Aggregated Structures (CAS) in a virtual organization* [Paper presentation]. The XVIII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Barcelona, Spain.

Contractor, N., & O'Keefe, B. (1998, February). *Learning communities and technology* [Poster presentation]. The Annual Faculty Retreat on Active Learning, University of Illinois at Urbana-Champaign, IL.

Contractor, N., & Hyatt, A. (1997, November). *Computational organizational modeling in the design of collaboration technologies* [Paper presentation]. The Annual Convention of the National Communication Association (NCA), Chicago, IL.

Pollock, T., Whitbred, R. A., & Contractor, N. (1997, November). *Social information processing and job characteristics: A simultaneous test of two theories with implications for job satisfaction* [Paper presentation]. The Annual Convention of the National Communication Association (NCA), Chicago, IL.

Contractor, N. S., Whitbred, R., Fonti, F., Hyatt, A., Jones, P., & O'Keefe, B. (1997, August). *Self-organizing communication networks in organizations. Validation of a computational model using exogenous and endogenous theoretical mechanisms* [Paper presentation]. The Alta Conference on Self-Organizing Systems Theory, Alta, UT.

Contractor, N. (1997, May). *Organizational Communication in Virtual Work Communities: A Research Agenda* [Paper presentation]. The International Communication Association's Organizational Communication Division Doctoral Consortium, Montreal, Canada.

Hyatt, A., Contractor, N., & Jones, P. M. (1997, May). *Computational organizational network modeling: Strategies and an example* [Paper presentation]. The meeting of the International Communication Association, Montreal, Canada.

Contractor, N. (1997, February). *Collaboration in the virtual organization* [Paper presentation]. The U. S. Department of Defense Modernization Workshop on collaboration at the Corps of Engineers Waterways Experimentation Station, Vicksburg, MI.

Contractor, N., Monge, P. R., Rumsey, S., & Fulk, J. (1997, February). *Network evolution of a virtual organization* [Paper presentation]. The XVII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), San Diego, CA.

Heald, M., Contractor, N., Koehly, L. M., & Wasserman, S. (1996, November). *Formal and emergent predictors of coworkers' perceptual congruence on an organization's social structure* [Paper presentation]. Meeting of the Speech Communication Association, San

Diego, CA.

Contractor, N. (1996, November). *WWW in the educational curriculum*. Short course offered at the meeting of the Speech Communication Association, San Diego, CA.

Contractor, N., & O'Keefe, B. (1996, November). *Project CITY: An Illustration of the TEAM Methodology* [Poster presentation]. Advanced Technology Program, Scottsdale, AZ.

Koehly, L., Contractor, N., & Wasserman, S. (1996, June). *P-star techniques for statistical analysis of cognitive social structures* [Paper presentation]. The Annual meeting of the Classification Society, Amherst, MA.

Pollock, T., Whitbred, R., & Contractor, N. (1996, February). *Social information processing, job characteristics and disposition: A test and integration of competing theories of job satisfaction* [Paper presentation]. The XVI Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Charleston, SC.

Jones, P., Contractor, N., O'Keefe, B., Lu, S., Case, M., & Lawrence, P. (1995, November). *Workflow and cooperative problem solving in civil infrastructure management* [Paper presentation]. The IEEE International Conference on Systems, Man and Cybernetics, Vancouver, BC.

Ehrlich, M., & Contractor, N. (1995, August). *Constraints on the evolution of talk in talk radio* [Paper presentation]. The meeting of the Association for Education in Journalism and Mass Communication, Washington, D.C.

Contractor, N. (1995, July). *Decision development in work groups: Social influence networks as its antecedent and outcome* [Paper presentation]. The Social Networks Conference, London.

Contractor, N. (1995, May). *The logics of emergence in organizational processes: A self-organizing systems perspective* [Paper presentation]. The meeting of the International Communication Association, Albuquerque, NM.

Contractor, N. (1995, April). *Organizational communication and systems theory* [Paper presentation]. The meeting of the Central States Speech Communication Association, Indianapolis, IN.

Contractor, N. (1995, March). *Team building in engineering design teams* [Paper presentation]. A joint meeting of the National Electrical Engineering Department Heads Association and the Mechanical Engineering Heads Association, Nashville, TN.

Contractor, N., Eisenberg, E. M., & Monge, P. R. (1994, May). *Antecedents and outcomes of interpretive diversity in organizations* [Paper presentation]. The meeting of the International Communication Association, Sydney, Australia.

- Contractor, N., & Grant, S. (1994, May). *Modeling organizations as self-organizing interpretive systems* [Paper presentation]. The meeting of the International Communication Association, Sydney, Australia.
- Contractor, N. (1994, June). *Use of supercomputing in the social sciences* [Paper presentation]. The Computing in the Social Sciences Annual Convention, College Park, MD.
- Contractor, N. S., Seibold, D., & Heller, M. A. (1992, May). *Interactional influence in the structuring of media use in groups* [Paper presentation]. The meeting of the International Communication Association, Miami, FL.
- Contractor, N., & Seibold, D. (1991, May). *Review and critique of empirical research on GDSS* [Paper presentation]. The meeting of the International Communication Association, Chicago, IL.
- Contractor, N., & Seibold, D. (1991, May). *Theoretical differences between structural and self-organizing approaches to the study of GDSS* [Paper presentation]. The meeting of the International Communication Association, Chicago, IL.
- Contractor, N. (1991). *Modeling an interdisciplinary research center as a shared meaning system* [Paper presentation]. The meeting of the Institute for Management Science, Nashville, TN.
- Contractor, N. (1991). *An analysis of meetings using SAGE Groupware* [Paper presentation]. Apple Computer's External Research Annual Conference, Cupertino, CA.
- Davis, C., & Contractor, N. (1991). *A semantic networks approach to the study of visionary leadership* [Paper presentation]. The XI Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Tampa Bay, FL.
- Michaelson, A., & Contractor, N. (1991). *Comparison of relational and positional predictors of group member's perceptions* [Paper presentation]. The XI Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Tampa Bay, FL.
- Contractor, N. (1991). *Self-organizing systems perspective in the study of organizational communication* [Paper presentation]. The inauguration of the organizational communication division of the German Communication Association, Bamberg, Federal Republic of Germany.
- Contractor, N., & Seibold, D. (1990, November). *Comparison of structural and self-organizing perspectives to the study of GDSS* [Paper presentation]. The meeting of the Speech Communication Association, Chicago, IL.
- Contractor, N., & Ehrlich, M. (1990, May). *Role of strategic ambiguity in the birth of an*

organization: The \$50 Million Experiment [Paper presentation]. The meeting of the International Communication Association, Dublin, Ireland.

Contractor, N. (1990). *Modeling organizations as meaning systems* [Paper presentation]. The X Sunbelt Conference of the International Network for Social Network Analysis (INSNA), San Diego, CA.

Contractor, N. (1989). *Conceptualizing organizations as non-linear dissipative structures* [Paper presentation]. The meeting of the International Communication Association, San Francisco, CA.

Contractor, N. S., Iacobucci, D., Monge, P. R., & Eisenberg, E. M. (1988). *Semantic networks and organizational climate* [Paper presentation]. The VIII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), San Diego, CA.

Eisenberg, E. M., Contractor, N. S., & Monge, P. R. (1988). *Semantic networks in organizations* [Paper presentation]. The Annual Conference of the International Communication Association, New Orleans, LA.

Monge, P. R., Rogers, E. M., Contractor, N. S., & Cozzens, M. D. (1988). *Investigating process in communication research* [Paper presentation]. The meeting of the International Association of Mass Communication Research, Barcelona, Spain.

Contractor, N. S., Singhal, A., & Rogers, E. M. (1988). *A resource dependency perspective on television broadcasting systems in India and Mexico* [Paper presentation]. The meeting of the International Association of Mass Communication Research, Barcelona, Spain.

Contractor, N. S., Cozzens, M. D., & Eisenberg, E. M. (1987). *Network predictors of semantic agreement in an organization* [Paper presentation]. The VII Sunbelt Conference of the International Network for Social Network Analysis (INSNA), Tampa Bay, FL.

Contractor, N. S., Singhal, A., & Rogers, E. M. (1986). *Satellite television and development in India: A utopian, dystopian, neutral, and contingency view of a communication technology* [Paper presentation]. The meeting of the International Association of Mass Communication Research, New Delhi, India.

Cozzens, M. D. & Contractor, N. S. (1985). *The effect of conflicting information on media skepticism* [Paper presentation]. The Annual Conference of the International Communication Association, Honolulu, HI.

TEACHING

Northwestern University

COMM_ST 525, IEMS 441, IEMS 490, MTS 525: Social Network Theories and Methods

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COMM_ST 395, IEMS 395, IEMS 341 : Social Network Analysis
COMM_ST 353: Collaboration Technology
DSGN 495: Designing and Leveraging Organizational Networks
DSGN 495-0-32 : Discovery, Diagnosis and Design of Networks
IEMS 393-2: Advisor to Senior Design Project teams
MSC 492-0-20: Understanding & Leveraging Networks
MSIA 490: Social Network Analytics
JOUR 390-0-24: Journalism and the Networked World

University of Illinois at Urbana-Champaign

CAS 587: The Age Of Networks: Social, Cultural And Technological Connections
PSYCH 493: Social Networks, co-taught with Stanley Wasserman
SPCOM 310: Communication Technologies in the Workplace
SPCOM 396: Communication Technologies in the Workplace
SPCOM 396: Walking through Knowledge Networks
SPCOM 312: Organizational Communication Processes
SPCOM 410: Communication Technologies in the Workplace
SPCOM 429: Seminar in Organizational Communication Networks
SPCOM 429: Communication Networks
SPCOM 429: Communication and Knowledge Networks
SPCOM 429: Dynamic Systems in Organizations
SPCOM 429: Communication and Collaboration Technologies in Organizations
SPCOM 429: Communicating in the Global Workplace
SPCOM 429: Communication Technologies and New Forms of Organizing
SPCOM 429: Knowledge Networks and New Forms of Organizing
SPCOM 474: Communication Research Methods
SPCOM 396: Visualizing and Navigating Knowledge Networks
SPCOM 529: Communication Networks

Jones International University

Content Expert of a 6-module web-based course on *Communication Technology Systems in Organizations*. Englewood, CO, 1997-1998.

Content Expert and On-Air Presenter of a 6-module video and web-based course on *Emerging Communication Technologies in the Workplace*. Englewood, CO, 1995-1996.

Prepared telecourse titled "*Emerging technologies in the workplace*," 1996.

University of Southern California

ANSC 505: Communications in Work Settings (Teaching Assistant)
ANSC 650: Research Design (Teaching Assistant)
ANSC 700a: Research Methods I (Teaching Assistant)

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ANSC 700b: Research Methods II (Teaching Assistant)

PROFESSIONAL SERVICE

Editorial Activities

Editor for Communication, Management, and Computational Social Science, *Network Science*, 2012-present.

Co-Editor, *IEEE Computer* 2018 special issue on Web Science, 2018.

Associate Editor, *Journal of Computer Mediated Communication*, 2013-2017.

Section Editor for “New Media and Organizing” in *Handbook of New Media: Social Shaping and Consequences of ICTs* (London: Sage, 2002)

Editorial Assistant for *Communication Research*, 1986-1987.

Editorial board memberships

Computational Communication Research, 2020- present

Journal of Communication, 2001-2003, 2005-2012, 2018- present

Journal of Computer Mediated Communication, 2018-present

Human Communication Research, 1992-1995, 1997-2004, 2010-2016

The Review of Communication, 1999-2012

Communication Theory, 1997-1998, 2002-2005, 2010-2012

Electronic Journal for Computer Mediated Communication, 1994-2009

Small Group Research, 2008-2009

Journal of Applied Communication Research, 1996-1997, 2007

Organization Science, 2000-2004

Management Communication Quarterly, 1992-1998

Handbook for Small Group Communication, 1996-1997

Ad hoc manuscript reviewer

Academy of Management Journal

Academy of Management Review

Administrative Science Quarterly

American Sociologist

American Journal of Sociology

Communication Theory

Communication Research

Communication Yearbook

Communication Monographs

Journal of Applied Communication Research

Journal of Communication
International Journal of Man Machine Studies
Management Communication Quarterly
Management Science
Organizational Science
Proceedings of the National Academy of Sciences
Journal of Applied Psychology
Journal of Economic Behavior and Organization
Journal of Business Communication
Journal of Business Research
Journal of Broadcasting & Electronic Media
Journal of the American Society for Information Sciences
Proceedings of the National Academies of Science
Science
The Information Society Journal

Paper reviewer (Conferences)

American Institute for Decision Sciences
Academy of Management
Computer Supported Cooperative Work
Computer Human Interaction
International Communication Association
National Communication Association
World Wide Web

Reviewer (Grant Proposals)

Bill & Melinda Gates Foundation
European Union Information Society & Technology (IST) Program
MacArthur Foundation Digital Media & Learning Initiative
National Institutes of Health
National Telecommunications and Information Administration
U.S. Dept. of Commerce, Washington, D. C.
U.S. National Science Foundation

Review Panelist

U.S. National Science Foundation in the Directories of Social, Behavioral & Economic Sciences and Computing & Information Sciences Engineering (over 40 panels)
National Institutes of Health, five panels in total, 2007-2014
MacArthur Foundation Digital Media & Learning Initiative
Portugal's National Science Foundation
Panel for the European Union eGov awards at the 5th European eGovernment Conference

in Malmö, Sweden, European Union
Framework Program on Information Society Technology
Scottish Higher Education Funding Council

Reviewer (Book manuscripts)

Bedford/St. Martin's
Cambridge University Press
Elsevier
Guilford Publishers
Harvard University Press
MIT Press
Oxford University Press
Sage Publications
Springer
SUNY Press
Texas A&M University Press

Video Lectures

National Communication Association (November 18, 2011). Grantseeking Basics: A Guide for the Communication Scholar video, New Orleans, LA. Available online at: <https://www.natcom.org/academic-professional-resources/help-grant-seekers>

Workshop/Conference Organizer/Program Planner

Co-organizer, Steering Committee, Networks 2021: A Joint Sunbelt and NetSci Conference, July 6-11, 2021, Virtual

General Co-chair, 13th ACM Web Science Conference 2021: Globalisation, Inclusion and the Web in the Context of COVID, June 21-25, 2021, Virtual

Co-organizer, 10th International Workshop on Network Theory: The Future of Work, March 12-14, 2020, Evanston, IL.

Co-organizer, 9th International Workshop on Network Theory: Brain Science and Social Networks, October 25-27, 2018, Evanston, IL.

General Co-chair, IEEE/ACM International Conference on Social Networks Analysis and Mining (ASONAM 2018), Barcelona, Spain.

Chair, Workshop on Workforce Development and Intelligence Analysis, designed to gather information for the Decadal Survey of Social and Behavioral Sciences for Applications to National Security, January 24th, 2018, Washington, D.C.

Co-organizer, 8th International Workshop on Network Theory: Wisdom in Networks, March 23-24, 2017, Los Angeles, CA.

Co-chair, National Academies of Science Workshop on Leveraging Advances in Social Network Thinking for National Security, October 11, 2017 Washington, D.C.

Co-organizer, Designing Online Experiments: Citizen Science Approaches to Research Workshop at the 19th Annual Computer-Supported Cooperative Work and Social Computing (CSCW) Conference, February 37, 2016, San Francisco, CA.

Co-organizer, 7th International Workshop on Network Theory: Peer Production Networks, October 29-31, 2015, Evanston, IL.

Co-organizer, Doctoral Consortium Planning Committee, INGRoup Annual Conference, July 22, 2015, Pittsburgh, PA.

Member, Planning Committee, 1st Computational Social Science Summit, May 15-17, 2015, Evanston, IL.

Co-chair, Computational Approaches to Advance Communication Research Preconference Workshop at the Annual Conference of the International Communication Association, May 21, 2015, San Juan, Puerto Rico.

Member, Steering Committee, 5th International Science of Team Science Conference, August 6-9, 2014, Austin, TX.

Co-organizer, 6th International Workshop on Network Theory: Social Networks in Governmental and Nongovernmental Sectors, April 10-12, 2014, Los Angeles, CA.

Member, Doctoral Consortium Planning Committee, Communication & Technology Division, International Communication Association 2011-2014.

Co-organizer, 5th International Workshop on Network Theory: Network Science meets the Science of Teams, October 3-5, 2013, Evanston, IL.

Conference Co-Chair, 4th International Science of Team Science Conference, June 24-27, 2013, Evanston, IL.

Co-organizer, Satellite workshop to the UN Framework Convention on Climate Change Conference on "Climate Change and Sustainability Communication - New Tools and Trends" at Northwestern University Qatar, December 1, 2012, Doha, Qatar.

Conference Co-Chair, Network Science, NetSci 2012, June 18-22, 2012, Evanston, IL.

Conference Co-Chair, ACM Web Science, WebSci 2012, June 22-24, 2012, Evanston, IL.

Co-organizer, 4th International Workshop on Network Theory: Networked Social Movements and Network Theory, April 26-28, 2012, Los Angeles, CA.

Co-chair, Professional development workshop *The innovations in team innovation: The science of teams and the science in teams* at the Annual Meeting of the Academy of Management August 3, 2012, Boston, MA.

Co-chair (with Brian Uzzi), Net Sci 2012 and ACM Web Science 2012, Evanston, IL.
Associate Chair, February 11-15, 2012, The 2012 ACM Conference on Computer Supported Cooperative Work ([CSCW 2012](#)), Seattle, W.A.

Co-organizer, 3rd International Workshop on Network Theory: Network Science meets Web Science, March 4-6, 2011, Evanston, IL.

Member, 2011 National Communication Association Organizational Communication Division Awards Committee.

Co-organizer, 2011 Social Mobile Web workshop at ICWSM, Barcelona.

Co-organizer (with Brian Uzzi) 2011 NICO (Northwestern Institute on Complex Systems) Complexity Conference, Evanston, IL.

General co-chair, 2011 3rd International Conference on Social Informatics, Singapore.

Member, Review and Selection Committee, May 6, 2011, Second Doctoral Consortium of the Communication and Technology Division of the International Communication Association, Boston, MA.

Co-chair (with Les Carr), Program Track, WWW 2010 Extended Semantic Web Conference, Raleigh, NC.

Co-chair (with Holly Falk-Krzesinski), 1st Annual International Conference on the Science of Team Science, April 22-24, 2010, Chicago, IL.

Co-organizer, 2nd International Seminar on Network Theory: Network Multidimensionality in the Digital Age, February 19-20, 2010, Los Angeles, CA.

Member, Program Committee, 2009, 2010, WWW Conference

Member, Organizing Committee, 2010 Extended Semantic Web Conference

Faculty co-organizer (with Paul Leonardi) October 16-18, 2009, 22nd annual Organizational Communication Mini-Conference, Northwestern University, Evanston, IL.

Co-chair (with Karen Church, Josep M. Pujol, & Barry Smyth) August 29-31, 2009, Social Mobile Web workshop, Vancouver, Canada.

Co-organizer (with Uri Wilensky and Seyed Iravani) 2009 NICO Annual Conference on Complexity and Networks, Evanston, IL.

Co-organizer (with David Lazer & Ines Mergel, Kennedy School of Government, Harvard University), 2008, Workshop on Application of Social Network Analysis in Digital Government. NSF Digital Government Conference, Montreal, Canada.

Co-organizer (with Charles Steinfield, Brian Pentland, and Mark Ackerman) of the 3rd International Communities & Technologies conference, 2007, Michigan State University, East Lansing, MI.

Co-organizer, 1st International Seminar on Network Theory: Interdisciplinary Approaches to Social Network Theory, September 15-16, 2006, Los Angeles, CA.

Co-organizer (with Katy Borner, Stan Wasserman, Laszlo Barabasi, & Alessandro Vespignani) May 2006, International workshop and conference on Network Science (NetSci 2006), Bloomington, IN.

Co-organizer (with Brad Hesse, National Cancer Institute), May 2006, Symposium on Cyberinfrastructure for Public Health, 2006 NSF Digital Government Conference, San Diego, CA.

Co-organizer (with David Lazer & Ines Mergel, Kennedy School of Government, Harvard University), May 2006, 2007, Workshop on Application of Social Network Analysis in Digital Government. NSF Digital Government Conference, San Diego, CA.

Co-organizer (with Katy Borner), October 2006, NSF Workshop on Social Networks and Cyberinfrastructure (SNAC). National Center for Supercomputing Applications, Urbana, IL.

Co-organizer (with David Lazer & Ines Mergel, Kennedy School of Government, Harvard University), 2005, Workshop on Application of Social Network Analysis in Digital Government. NSF Digital Government meeting, Atlanta, GA.

Co-organizer (with Scott Leischow, National Cancer Institute), May 16, 2005, Symposium and "[Birds of a Feather](#)" Session on Cyberinfrastructure for Public Health. NSF Digital Government Meeting, Atlanta, GA.

Member, Program Committee, August 22-26, 2005, eGov 2005 Conference, Copenhagen, Denmark.

Member, Program Committee, August 30-September 3, 2004, eGov 2004 Conference, Zaragoza, Spain.

Member, Organizing Committee, 2003-2007, [International Symposium on Understanding Complex Systems](http://www.how-why.com/ucs2005/), Urbana-Champaign, IL. <http://www.how-why.com/ucs2005/>

Co-organizer (with Steve Corman & Ron Rice), May 27, 2004, Workshop on Communication Networks in the Public Interest. Annual Conference of the International Communication Association, New Orleans, LA.

Co-organizer, (with Anthony Stefanidis, U of Maine) May 24, 2004, Birds of a Feather. Session on International Collaboration on Digital Government Research, Digital Government 2004 meeting, Seattle, WA. <http://www.dgrc.org/dgo2004/program/bofs/nosh.pdf>

Co-organizer, (with Anthony Stefanidis, U of Maine) May 21-24, 2004, NSF [Workshop on Information Society Technologies and Research Challenges for the 21st Century](#), Budapest, Hungary.

Organizer and Moderator, February 25, 2004, Gizmos, Gadgets and Googles, Panel sponsored by UIUC's Illinois Program for Research in the Humanities, Urbana, IL.

Organizer and Moderator, December 9, 2003, Silicon, Carbon, Culture Roundtable: Discussion on the projects undertaken as part of the 3-semester initiative, jointly sponsored by UIUC College of LAS and FAA, Beckman Auditorium, Urbana, IL.

Program Planner, May 2003, Organizational Communication Division, Annual Conference of the International Communication Association, San Diego, CA.

Member, Program Committee, 2003, Digital Cities 3: Local Information And Communication Infrastructures: Experiences And Challenges, Kyoto, Japan.

Program Planner, July 15-19, 2002, Organizational Communication Division, Annual Conference of the International Communication Association, Seoul, South Korea.

Member, Program Committee, 2002, [International Workshop on Regulated Agent-Based Social Systems: Theories and Applications](#) (RASTA'02).

Member, Program Committee, February 12-17, 2002, International Network for Social Network Analysis Annual Sunbelt Conference, New Orleans, LA.

Member, Program Committee, October 18-21, 2001, 3rd Kyoto Digital Cities and Communityware Meeting, Kyoto, Japan.

Member, Workshop on Collaborative Learning, May 18-21, 1998, UIUC Summer Faculty Institute, Urbana, IL.

Member, Program Committee, 1998, ICA Annual Convention, soliciting sponsorship, providing Internet/Web support, Jerusalem, Israel.

Member, Program Committee, 1997, ICA Annual Convention, soliciting sponsorship, providing Internet/Web support, Montreal, Canada.

Faculty Coordinator, 1997, IXth Annual Organizational Communication Miniconference, Champaign-Urbana, IL.

Member, 1996-1997, SCA Nominations Committee, Publications Awards in Organizational Communication.

Membership in Professional Associations

American Association for the Advancement of Science (AAAS)

Academy of Management (AOM)

American Sociological Association (ASA)

Association for Computing Machinery (ACM)

Institute for Operations Research and Management Science (INFORMS)

International Communication Association (ICA)

International Network for Social Network Analysis (INSNA)

Interdisciplinary Network for Group Research (INGROUP)

National Communication Association (NCA)

Network Science Society (NetSci)

Advisory Board Appointments & Elected Offices

President-Elect-Select, International Communication Association (ICA), 2020/2021

Member, Advisory Board, Journal of Quantitative Description: Digital Media, 2020

Member, External Advisory, Indiana University Network Science Institute, 2014-present.

Member, Board of Trustees, Web Science Trust, 2011-present

Member, External Advisory Committee, European Union FP7 Network of Excellence in Internet Science –EINS (<http://www.internet-science.eu/>), 2014-2018

Member, External Advisory Board, USC Media Impact Project, 2014-present

Member, Advisory Board, Journal of Human Computation, 2014-present

Member, Advisory Board, Journal of Web Science, 2014-present

Member, Jury for the Everett Rogers Award - for achievement in the fields pioneered by scholar and teacher Everett M. Rogers. (www.rogersaward.org), 2014 - present

Member, External Advisory, ACTNext initiative at ACT, 2016-2020

Member, Wrigley TRANSaction[+] Advisory Board, 2014-2016

Member, Scientific Advisory Board, Institute for Scientific Interchange (ISI) Foundation, Torino, Italy, 2013-2016

Member, Scientific Advisory Board, Ninja Metrics, 2012-2016

Member, Web Science Trust Program Board, 2009-2011

Member, Advisory Board, *Responsible Business in the Blogosphere*, Centre for Corporate Social Responsibility, Copenhagen Business School, Denmark, 2010-2016.

Member, *Applications, Middleware & Services Advisory Council (AMSAC)*, Internet2, 2008-2011.

Member, National Steering Committee, National Cancer Institute's Redes en Accion (Latin American Health Network), 2007-2009

Advisory Board, Canadian Health Services Research Foundation. Leveraging knowledge networks in health services research and delivery, 2007

External Advisory Board, Immersion Studies, 2003-2004.

Advisory Board, Intranet Working Group, Stanford Computer Industry Project, 1997-1998.

Member, Faculty Advisory Board, Jones International University, Jones Intercable, Englewood, CO, 1996-1997, 2001-2002

Association Committee Appointments & Elected Offices

Member, Board of Directors, Society of Scholars of Zoroastrianism, 2019-present.

Member, Society of Behavioral Medicine Presidential Working Group (PWG) on Climate Change, Behavior Change, and Health, 2020-2021

Member, Selection Committee, OCD Monographs & Edited Book Award, National Communication Association (NCA), 2019

Member, Fellows Working Group on Diversity, International Communication Association (ICA), 2019-present.

Member, Selection Committee, Best Paper Award, Computational Methods Interest Group, International Communication Association (ICA), 2018.

Member, Decadal Survey of Social and Behavioral Sciences and Applications to National Security Committee, 2017-2019.

Member, Ad Hoc Best Paper committee, ICA Computational Methods Interest group, 2018.

Member, National Communication Association (NCA) on Center for Community, Collaboration and Change, 2016-2018.

Member, Board of Directors, International Network for Social Network Analysis (INSNA), 2013-2016.

Member, Board of Directors, NetSci Society, 2012-2015.

Member, Nominations Committee, Organizational Communication Division, International Communication Association, 2011.

Chair, International Communication Association (ICA) Liaison Committee, 2010-2012

Member, International Communication Association (ICA) External Research Funding Task Force, 2009

Member, International Communication Association (ICA) Development Task Force, 2008-2009

Program Director, Web Science Research Initiative, 2009

Chair, Freeman Awards Committee, International Network for Social Network Analysis, 2007-2008

Chair, International Communication Association, Development Task Force, 2007

Chair, International Communication Association, Nominating committee, 2004-2005

Member, Joint ICA-NCA Task Force, Organizational Assessment Tools, 2003-2005

Member, Best Publication Award Committee, Organizational Communication & Information Systems Division, Academy of Management, 2004-2005

Member, International Communication Association Nominating Committee, 2003-2004

Member, International Communication Association Theme Committee, 2003-2004

Chair, Web Services, International Communication Association, 2000-2001

Member, National Communication Association (NCA) National Science Foundation (NSF) Task Force, 2000-2003

Chair, International Communication Association, Organizational Communication Division, Redding Dissertation Award Committee, 1998

Chair, Organizational Communication Division, International Communication Association, 2002-2004

Vice-Chair, Organizational Communication Division, International Communication Association, 1999- 2001

Secretary, Organizational Communication Division, International Communication Association, 1997-1999

Grant and Foundation Committees

Member, Advisory board, National Science Foundation project: *Examination of Changes in Integration and Innovation Among Instructional Integration Initiative Projects*. 2011-2015

Member, Advisory Council, Family Health Diffusion System Project, funded by the Bill and Melinda Gates Foundation. 2010-2013.

Member, Research Networking Group, NIH Clinical & Translational Science Awards, National Institutes of Health, 2009-2014

Chair, Social Networks Working Group, NIH Clinical & Translational Science Awards, National Institutes of Health, 2009-2014

Member, Advisory Committee on Research Portfolio Tools for Structuring, Analyzing, Visualizing and Interacting with Proposal and Award Portfolios. NSF's Computing & Information Sciences Engineering (CISE) & Social, Behavioral & Economic (SBE) Sciences Directorates, 2009-2010.

Member, Jury for eGov European Union Foundation Awards, 2009.

Advisor, National Science Foundation Working Group on Cyberinfrastructure for the Social Sciences. 2004-2005

Invited Expert, Network for the Improvement of Addiction Treatment, The Robert Wood Johnson Foundation and the US Government's Center for Substance Abuse Treatment. 2004-2005

Member, National Cancer Institute, Initiative on the Study and Implementation of Systems, 2003-2004

External University Appointments

Honorary Professor, School of Business, Fudan University, Shanghai, China, 2010-present.

Distinguished Visiting Scholar at the Center for Work, Technology, & Organizations (WTO) in the Department of Management Science & Engineering at Stanford University's School of Engineering, CA, Winter quarter 2017.

External Member, Web Science Distinguished Faculty Search Committee, University of Southampton, UK, 2014.

Member, External Review Committee, College of Communication, Boston University, 2014.

Member, External Review Panel, Department of Communication, Cornell University, 2011.

Member, External Advisory Committee to review Social Informatics Program, School of Informatics and Computing at Indiana University, Bloomington, IN, 2010.

Fellow, The Field Museum, Chicago, Division of Environment, Culture, and Conservation (ECCo), 2007-2015.

External Faculty, Center for Organizational Innovation, Columbia University, 2002-2007.

Faculty Advisory Board, Program in Business Communication, Jones International University, Englewood, CO, 1996-2001.

Van Zelst Distinguished Scholar in Residence, Northwestern University, May 1-5, 2006.

Visiting Scholar, Department of Communication, Purdue University, April 3-7, 2006.

Visiting Honorary Professor, University of Science and Technology of China. Hefei, China, November 2004.

Annenberg Scholar, Annenberg School of Communication, University of Pennsylvania, fall, 1997.

Invited Faculty, Executive M.B.A. Program, University of Jyväskylä, Finland, 1995.

SELECTED UNIVERSITY SERVICE

Northwestern University

Member, Communication Studies, Graduate Curriculum Committee, 2020-2021

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Member, Northwestern IRB Panel E to review Social Behavioral Research, 2020

Member, Media, Technology, and Society PhD Admissions Committee, 2020-2021

Member, Program Committee, Master's of Science in Communication, 2020-2021

Faculty Associate, Institute for Policy Research, 2019-present

Client Project Challenge Adviser, Department of Industrial Engineering & Management Sciences,
2019-2020

Member, Personnel Committee, Kellogg School of Management, 2019-2020

Member, Advisory Board, Northwestern Institute on Complex Systems (NICO), 2018-present

Core Faculty, Northwestern Institute on Complex Systems (NICO), 2007-present

Member, Design Research Cluster, Segal Design Institute, Northwestern Engineering, and The
Graduate School, 2018-present

Member, Faculty Advisory Board, Master's of Science in Communication Program, Northwestern
University, 2019-present

Member, Faculty Search Committee, Communication Studies, Northwestern, 2019-present

Member, McCormick School of Engineering Tenure & Promotion committee, 2019-present

Member, Promotion & Tenure Committee, Kellogg School of Management, 2018-present

Mentor for Junior Faculty, Searle Fellows Program, 2019-present

Member, Doctoral Admissions Committee in Management & Organizations (MORS),
2018-present

Member, Doctoral Admissions Committee in Industrial, Engineering, and Management Sciences
(IEMS), 2018-present

Member, Northwestern University Graduate Program Review Committee, 2019-present

Member, Advisory Committee, Physical Sciences-Oncology Center (PSOC), 2011-present

Member, TSB Executive Committee, 2009-present

Member, Faculty Senate, 2014-present

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Member, Faculty Senate Research Affairs Committee, 2016-present

Member, Strategic Planning Committee, Department of Industrial Engineering & Management Sciences, 2009-2017

Advisor, NU/Kellogg Community Social Media Platform, 2012-2015

Member, Steering Committee, Northwestern Scholars, 2012-2015

Member, NUCATS TL1 Executive Leadership Committee, 2015-2017

Member, NICO Executive Committee, 2008-2017

Member, Faculty Excellence Advisory Committee, 2015-2019

Member, Presidential Fellowship Review Committee, 2015-2017

Member, Faculty Senate Committee on Budget and Planning, 2015-2016

Member, Media Technology & Society Faculty Search Committee, 2014-2015

Member, Media, Technology & Society, Graduate Admissions Committee, 2014-2015

Member, Segal Chair Faculty Search Committee, 2010-2011

Member, Media Technology & Society Faculty Search Committee, 2010-2011

Member, Media, Technology & Society, Graduate Admissions Committee, 2010-2011

Member, Technology & Social Behavior, Graduate Admissions Committee, 2010-2011

Member, McCormick School of Engineering, Tenure & Promotion Committee, 2010-2011

Member, VPIT-CIO Search Committee, 2009-2011

Member, Graduate Committee, Department of Industrial Engineering and Management Sciences, 2009-2010

Junior Faculty Mentor, School of Communication, 2007-2010

Member, Ad hoc Promotion Committee, McCormick School of Engineering, 2009

Member, McCormick Cabell Fellows Committee, 2008-2009

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Member, TSB Graduate Admissions Committee, 2008-2009

Member, Industrial Engineering and Management Sciences Graduate Admissions Committee, 2008-2009

Member, Industrial Engineering and Management Sciences Advisory Committee, 2008-2009

Member, Northwestern Research and Academic Computing Committee (RACC), 2007-2011

Chair, MTS Search Committee, 2007-2009

University of Illinois, Urbana-Champaign

Member, UIUC Chancellor's Intellectual Visioning Committee, 2007

Director, *Science of Networks in Communities (SONIC)* Research Group, National Center for Supercomputing Applications (NCSA), 2004-2007

Director, UIUC Center for Advanced Study initiative on *The Age of Networks II: Social, Cultural and Technological Connections*, 2004-2007

Member, Intellectual Visioning Committee, appointed by Chancellor Richard Herman, 2006-2007

Co-Chair, Department Colloquium Series, 2006-2007

Member, Steering committee UIUC Illinois Informatics Initiative (III), 2006-2007

Member, Steering Committee, UIUC Illinois Homeland Security Research Center, 2006-2007

Director, *Woolbert Computing Laboratory and Instructional Computing Laboratory*, 1995-2007

Member, Selection committee, UIUC Millercom Distinguished Lectures, 2003-2007

Chair, UIUC Center for Advanced Study Lecture Series on *The Age of Networks: Social, Cultural and Technological Connections*, 2005-2007

Member, Steering Committee, UIUC Seedbed Initiative on Arts in a Technology-Intensive World, 2004-2007 <http://www.seedbed-initiative.uiuc.edu/>

Director, Department of Speech Communication Computing and Instructional Laboratories, 1987-2007

Member, Steering Committee, Food Security Initiative, 2003-2007

Member, UIUC Information Technology Advisory Board, 2002-2007

Reviewer, University Research Board, 1990-2007

Department Representative, University Computing Services, 1987-2007

Co-Director, UIUC Center for Advanced Study initiative on The Age of Networks: Social, Cultural and Technological Connections, 2005-2006

Member, College of Liberal Arts & Sciences (LAS) Technology Advisory Committee, 2004-2006

Member, UIUC *Center for Advanced Study/ George A Miller Program Committee*, 2003-2006

Member, Search Committee, Department of Speech Communication, 2005-2006

Co-Chair, Working Group for the UIUC Center for Advanced Study, 2005-2006

Member, Search Committee, Department of Speech Communication and Sociology, 2004-2005

Member, Steering Committee, Campus Initiative on Food Security, 2002-2005

Member, Advisory Board, Illinois Program for Research in the Humanities (IPRH), 2003-2005

Member, Advisory Board, Illinois Program for Research in the Humanities, 2003-2004

Member, Steering Committee, Cross-campus Initiatives, 2003-2005

Member, Steering Committee, Ethnography of the University Initiative, 2003-2004

Member, Steering Committee, Arts & Technology Initiative, 2002-2004

Faculty Mentor and Technology Resource, UIUC's Center of Advanced Study initiative on *Who gets What? The interactions of health policy and social welfare policy*, 2003-2004

Member, Steering Committee, Madden Initiative: *Silicon, Carbon, Culture: Combining Codes Through the Arts, Humanities, and Technology*, 2001-2004

Member, Department Faculty Search Committee, 1999-2004

Member, Steering Committee, Cross Campus Initiatives, 2002-2003

Member, Tenure and Promotion Committee, Caroline Haythornthwaite, Graduate School of Library & Information Sciences, 2001-2002

Member, Department Advisory Committee, 1999-2002

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Member, UIUC Search Committee for the Director of Computing and Communications Services Office, 2000-2001

Member, Faculty Senate, 1999-2001

McNair Scholar Mentor, 2000

Member, Department Advisory Committee, 1998-2000

Intranet Advisory Board, Partnership for Advanced Computational Infrastructure, National Center for Supercomputing Applications, 1996-1999

Member, Department of Speech Communication Human Subjects Committee, 1994-1999

Department Representative, University Research Services, 1987-1999

Director, Macintosh Instructional Computing Laboratory, 1995-1997

Member, Selection Committee, Illini Tradition Awards, 1996-1997

Faculty Representative, UIUC Educational Technologies' Board, Microsoft Site Builder's Conference, November 1996

Faculty Advisor, UIUC CCSO's Virtual Classroom Initiative, 1996

Chair, Oversight Committee on Computing and Communications in the Social Sciences, 1993-1996

Chair, Area Committee on Communication Research and Quantitative Methods curricula, 1995-1996

Member, Advisory Committee of the Advanced Information Technology Program, 1995-1996

Member, Search Committee, OCCSS' Manager of System Services, 1995-1996

Member, Executive Committee, Language Learning Laboratory, 1988-1989; 1991-1996

Faculty Coordinator, Midwest Organizational Communication Mini-conference, 1988, 1992, 1996

Chair, Lincoln Hall Building Network Committee, 1992

Member, Lincoln Hall Building Network Committee, 1990-1992

Research Affiliate, Advanced Research Institute, Graduate School of Library and Information Science, 1990-1991

University of Southern California

Member, Doctoral Research Methods Committee, 1986-1987

Coordinator, Western States Communication Mini-conference, 1986

Member, Facilities and Equipment Committee, 1984-1985

PUBLIC SERVICE

Consulting Activities

Chairman and Co-Founder of Syndio LLC, 2009-present

Center for Nonprofit Management, Kellogg School of Management, 2010-present

Livestrong Foundation, 2009-present

Procter & Gamble, 2002-present

Vodafone, 2004-2007

Executive Development Associates, 2003-2005

Communication Research Associates, 1995-2001

Annenberg Public Policy Center, 1999-2000

Amoco, 1998

Arthur Anderson, Change Management Group, 1998

Purdue University, 1998

Utah Transit Authority's, 1998

Stanford, 1997-1998

Steelcase Inc., 1996-1998

Merrill Lynch, 1997

Gensler Associates, 1996-1997

Anderson Consulting, 1996

DCM, 1996

Government of India's planning commission, 1996

Indian Institute of Mass Communication, 1996

India's National Informatics Center, 1996

Spectrum Technologies, 1996

Illinois Power, 1995-1996

U.S. Department of Commerce, 1995-1996

Member, Programming Committee, Champaign-Urbana Cable Commission, 1992

Oasis Management Consultants, 1987-1990

McDonnell Douglas Corporation, 1987-1990

Communimetrics, Inc., 1984-1987

First Interstate Bancorp, 1985

KSCI-TV, Los Angeles, 1985

Paramount Pictures, 1984

Selected Publications for Media and Popular Press

Schlag, G., & Wenz, B. (2020, January 13). *Auf der Suche nach dem idealen Team*.
https://www.rbb-online.de/rbbkultur/radio/programm/schema/sendungen/kulturtermin/archiv/20200113_1904.html

De, M. (2019, October 20). Wie finde ich das beste Team für eine Marsmission? | MDR.DE.
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Karter, E. (2019, February 21). Mars Mission Gets Help from Predictive Model, Helps NASA Anticipate Conflicts. Retrieved September 30, 2019, from Electronic Component News website:
<https://www.ecnmag.com/news/2019/02/mars-mission-gets-help-predictive-model-helps-nasa-anticipate-conflicts>

cnBeta. (n.d.). 西北大学开展模拟太空旅行计划 帮助宇航员更顺利抵达火星 - 科学探索 - cnBeta.COM. Retrieved September 30, 2019, from cnBeta.COM website:
<http://www.cnbeta.com/articles/science/819639.htm>

Arechiga, M. (2019, May 15). Who Can Handle Trip To Mars? NU Helps NASA Predict Strains On Astronauts. Retrieved September 30, 2019, from WBEZ website:
<https://www.wbez.org/shows/wbez-news/who-can-handle-trip-to-mars-northwestern-helps-nasa-predict-strains-on-astronauts/b4dbfec7-f2bc-4ea1-ba62-fa70dce4c592>

Redacción, E. C. (2019, February 19). Marte | Científicos trabajan en modelo para evitar “fallos psicológicos” en futuros viajes. Retrieved September 30, 2019, from El Comercio website:
<https://elcomercio.pe/tecnologia/ciencias/marte-cientificos-modelo-evitar-fallos-psicologicos-futuros-viajes-noticia-609389-noticia/>

Wang, A. (2019, February 26). Northwestern professors build model for NASA Mars expedition. Retrieved September 30, 2019, from The Daily Northwestern website:
<https://dailynorthwestern.com/2019/02/25/lateststories/nu-aids-nasa-mars-mission-using-communication-science/>

Space agencies preparing for 3-year round-trip journey to Mars. (2019, February 23). Retrieved September 30, 2019, from
<http://www.digitaljournal.com/tech-and-science/science/space-agencies-preparing-for-3-year-round-trip-journey-to-mars/article/543897>

Howell, E. (2019, February 23). Astronauts Struggle with Finishing Tasks on Mock Space Missions. Retrieved September 30, 2019, from Space.com website:

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<https://www.space.com/astronauts-struggle-mock-space-missions.html>

- “It’s like a hall of mirrors’: In a spacecraft, some personalities work better than others. (n.d.). *CBC News*. Retrieved from <https://www.cbc.ca/listen/live-radio/1-63-the-current/clip/15672064-its-like-a-hall-of-mirrors-in-a-spacecraft-some-personalities-work-better-than-others>
- Pulcrano, G. (2019, February 18). Pensiero creativo e problem solving: gli umani sfidano Marte. Retrieved September 30, 2019, from Global Science website: <https://www.globalscience.it/10494/pianeta-terra/pensiero-creativo-e-problem-solving-gli-umani-sfidano-marte/>
- Mental health of Mars’ crew to be monitored | Chennai News - Times of India. (n.d.). Retrieved September 30, 2019, from The Times of India website: <https://timesofindia.indiatimes.com/city/chennai/mental-health-of-mars-crew-to-be-monitored/articleshow/69315211.cms>
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- Europa Press. (2019, February 18). Un modelo para predecir fallos psicológicos en el viaje a Marte. Retrieved September 30, 2019, from <https://www.europapress.es/ciencia/misiones-espaciales/noticia-modelo-predecir-fallos-psicologicos-viaje-marte-20190218111229.html>
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- Grantseeking Basics: A Guide for the Communication Scholar video. (2011, November 18). *National Communication Association*, New Orleans, LA.
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<http://www.technologyreview.com/news/423101/spotting-influencers-in-big-companies/>
- Midwest private equity conference: Social networking not a replacement for in-person meetings. (2011, February 17). *RTT News, Global Financial Newswires*. Available online at: <http://www.rttnews.com/Story.aspx?type=ts&Node=B1&Id=1555974>
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- Upton, G. (2009). NU-Q Expands Northwestern's Global Scope. *CenterPiece*. Evanston, Northwestern University: 17.
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- Naper, J. (2009) Project: Collaborative research: Coupled models of diffusion and individual behavior over extremely large social networks. *NSF Award from the Office of CyberInfrastructure, Office of the Director*.
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Professor Noshir Contractor Joins Web Science Trust. (2009). *McCormick News*.

Faculty feats. (2009). *Dialogue*. Evanston, Northwestern University, School of Communication.

Gewin, V. (2008) The new networking nexus. *NatureJobs.com*, 451.

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Lynn, A. (2005, March). [Insects, viruses could hold key for better human teamwork in disasters](#). Inside Illinois. University of Illinois at Urbana-Champaign.

(2004) Noshir Contractor 教授受聘为我校人文学院客座教授 ("employed as a visiting professor"). 中国科学技术大学新闻网

Cole, Beth. (2001, March). [Go, team, go](#). *Business*, Kiwanis. 40.

White house gets advice on electronic communications. (1993). *The Chronicle of Higher Education*.

Lynn, Andrea. (1993, July). [UI undergrads contribute to White House e-mail system](#). *Inside Illinois*. University of Illinois at Urbana-Champaign.

[UI prof, students advise White House on e-mail](#). (1993, June). *Associated Press*. The Champaign-Urbana News Gazette. Champaign, Illinois.