

NOSHIR S. CONTRACTOR

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EDUCATION

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

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 Industrial Engineering and Management Sciences, Management and Organizations, Communication Studies, 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

HONORS AND AWARDS

Distinguished and Career Recognition

Leonore Annenberg and Wallis Annenberg Fellowship in Communication at the Center for Advanced Study in the Behavioral Sciences, Stanford University, 2025-2026

William D. Richards Software award to the Network Canvas Team (Noshir Contractor, member). International Network for Social Network Analysis, 2025.

B. Aubrey Fisher Mentor Award, International Communication Association, 2025

Fellow, Academy of Management, 2023

Fellow, Network Science Society, 2022.

Georg Simmel Award, International Network for Social Network Analysis (INSNA), 2022.

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

Dennis Gouran Research Award (2025), Group Communication Division, National Communication Association for Lane, J. N., Leonardi, P. M., Contractor, N. S., & DeChurch, L. A. (2024). Teams in the digital workplace: Technology's role for communication, collaboration, and performance. *Small Group Research*, 55(1), 139-183.

Dennis Gouran Research Award (2022), Group Communication Division, National Communication Association, for Fu, J. S., Shumate, 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.

Randall Harrison Outstanding Article Award (2022), Information Systems Division, International Communication Association, for Fu, J. S., Shumate, 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.

Article of the Year Award (2021), Honorable Mention, Organizational Communication Division, National Communication Association, for Fu, J. S., Shumate, 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.

Bill Eadie Distinguished Scholarly Article Award (2021), Applied Communication Division, National Communication Association, for Fu, J. S., Shumate, 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.

Fellows Book Award (2021), International Communication Association, for *Theories of Communication Networks* (New York: Oxford University Press, 2003)

Article of the Year Award (2015), Communication Theory and Methodology Division, Association for Education in Journalism and Mass Communication, for 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.

Outstanding Scholarly Edited Book Award (2014), Organizational Communication Division, National Communication Association, for Shumate, M., & Contractor, N. (2014). Emergence of multidimensional social networks. In L. L. Putnam & D. Mumby (Eds.), *Handbook of Organizational Communication* (pp. 451-474). Thousand Oaks, CA: Sage.

Ernest Bormann Research Book Award (2013), Group Communication Division, National Communication Association, for Contractor, N., & Su, C. (2012). Understanding groups from a network perspective. In A. Hollingshead & M. S. Poole (Eds.), *Research Methods for Studying Groups and Teams: A Guide to Approaches, Tools, and Technologies* (pp. 284-310). New York: Taylor & Francis/Routledge.

Article of the Year Award (2012), Organizational Communication Division, National Communication Association, for "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.

Ernest Bormann Research Award (2006), Group Communication Division, National Communication Association for Katz, N., Lazer, D., Arrow, H., & Contractor, N. (2005). The network perspective on small groups: Theory and research. In Poole, M. S. & Hollingshead, A. B. (Eds.), *Theories of Small Groups: Interdisciplinary Perspectives* (pp. 277-312). Newbury Park, CA: Sage.

Outstanding Book Award (2003), Organizational Communication Division, National Communication Association, for Monge, P. R., & Contractor, N. (2003). *Theories of communication networks*. New York: Oxford University Press.

Top Paper Awards

Sage Publishers Best Paper Award (2025), Management History Division, Academy of Management. DeChurch, L. A., Lungeanue, A., Chan, M. & Contractor, N. (2025). When two is too many, but not enough: Shared leadership in ancient Rome. Paper presented at the annual Academy of Management Conference, Copenhagen.

Top 4 Paper Award (2021), Group Communication Division, International Communication Association, for Gómez-Zarà, D., DeChurch, L. A., & Contractor, N. (2021, May). *Do I Know You? The Effects of Social Capital on Self-Assembled Groups*. Paper presented at the 71st Annual International Communication Association (ICA) Conference, Virtual.

Top 4 Paper Award (2020), Group Communication Division, National Communication Association, for Wang, Y., Zhang, J., Ding, Z., DeChurch, L. A., & Contractor, N. S. (2020, November). *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 Gómez-Zarà, D., Guo, M., DeChurch, L. A., & Contractor, N. (2020, April). *How displaying team diversity information influences preferences for heterophily*. In Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20), Honolulu, HI.

Top 4 Paper Award (2017), Organizational Communication Division, International Communication Association, for 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 presented at the 67th Annual Conference of the International Communication Association, San Diego, CA.

Top Paper Award (2016), for 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 presented at the 14th International Design Conference, Cavtat-Dubrovnik, Croatia.

Top Paper Award (2015), for 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 presented at the Annual Convention of the National Communication Association (NCA), Las Vegas.

Best Conference Poster Award (2015), for 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 presented at the Interdisciplinary Network Conference for Group Research (INGroup) Annual Conference, Pittsburgh, PA.

Top Paper Award (2013), for McCusker, J. P., McGuinness, D. L., Lee, J., Thomas, C., Courtney, P., Tatalovich, Z., Contractor, N., Morgan, G., & Shaikh, A. (2013). *Towards next generation health data exploration: A data cube-based investigation into population statistics for tobacco IT innovation*. *Proceedings of the Hawaii International Conference On System Sciences (HICSS)*.

Top Paper Award (2011), for Keegan, B., Ahmad, 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*, ACM Web Science Conference 2011, Koblenz, Germany.

Top 3 Paper Award (2011), Organizational Communication Division, International Communication Association, for *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.

Carolyn Dexter Paper Award Finalist (2010), for *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,* Academy of Management Annual Conference, Montreal, Canada.

Top Paper Award (2009), for *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,* Fourth Annual INGRoup Conference, Colorado Springs, CO.

Top 3 Paper Award (2008), for *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.* 94th Annual Convention of the National Communication Association (NCA), San Diego, CA.

Top 3 Paper Award (2000), Organizational Communication Division, International Communication Association, for *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.* International Communication Association annual convention, Acapulco, Mexico.

Top 3 Paper Award (1998), International Communication Association, for *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 presented at the meeting of the International Communication Association, Jerusalem, Israel.

Top 3 Paper Award (1997), for *Hyatt, A., Contractor, N., & Jones, P. M. (1997, May). Computational organizational network modeling: Strategies and an example.* Paper presented at the meeting of the International Communication Association, Montreal, Canada.

Top 3 Paper Award (1988), Organizational Communication Division, International Communication Association, for *Eisenberg, E. M., Contractor, N. S., & Monge, P. R. (1988). Semantic networks in organizations. Paper presented at the Annual Conference of the International Communication Association, New Orleans, LA.*

Advisee Dissertation Awards

Dissertation Adviser, Diego Gomez-Zara, Hackman Outstanding Dissertation Award, Interdisciplinary Network of Group Research (INGROUP), 2022.

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

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

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

Patents

Contractor, N., Gado, H., & Sawant, A. (2020). Systems and Methods for Automatically Identifying Specific Teams of Users to Solve Specific and Real-Time Problems. *U.S. Patent No. 10,795,896*. Evanston, IL: U.S. Patent and Trademark Office.

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. <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

2026

Zhu, M., Liu, L., & Contractor, N. (2026). The evolving influence of social networks on collaboration technology use during telework transitions. *Information Technology & People*, 39(4), 1601-1625.

Carter, D., Lungeanu, A., Pearman, J., Carter, N., Bauer, L., Pendergraft, J., Landon, L., Shuffler, M., DeChurch, L. A., & Contractor, N. S. (2026). Collective attention in virtual teams: A pathway for mitigating communication delays. *Personnel Psychology*, 79(2), 191-221. <https://doi.org/10.1111/peps.70024>

Liu, L., Zhu, M., Su, R., & Contractor, N. (2026). Connected yet constrained: Advice network, after-hours enterprise social media use and work-family conflict. *Industrial Management & Data Systems*. Advance online publication. <https://doi.org/10.1108/IMDS-05-2025-0608>

2025

DeChurch, L., Lungeanu, A., Chan, M., & Contractor, N. (2025). When two is too many and not enough: Discoveries on the stability of shared leadership from Rome to Mars. *Academy of Management Discoveries*. Advance online publication. <https://doi.org/10.5465/amd.2025.0028>

Mattarelli, E., Schecter, A., Hinds, P., & Contractor, N. (2025). Secondhand social capital and idea quality in open innovation communities. *Research Policy*, 54(10), 105332.

Garg, K., Gómez-Zarà, D., Gerber, E., Gergle, D., Contractor, N., & Massimi, M. (2025). What remotely matters? Understanding individual, team, and organizational factors in remote work at scale. *Proceedings of the ACM on Human-Computer Interaction*, 9(7), 1-47.

Lungeanu, A., DeChurch, L., Chan, M., & Contractor, N. (2025). Leading the crew to Mars: Evidence from NASA HERA analog crews. *Acta Astronautica*, 237, 141-150.

Baratta, L. R., Xia, L., Lew, D., Eiden, E., Wu, Y. J., Contractor, N., Lambert, B. L., Lou, S. S., & Kannampallil, T. (2025). Networked behaviors associated with a large-scale secure

messaging network: Cross-sectional secondary data analysis. *JMIR Medical Informatics*, 13, e66544.

Schultz, M., DeChurch, L., & Contractor, N. (2025). Embedded interactions and selective disclosure: Network effects on conversations aboard Skylab. *Symbolic Interaction*. Advance online publication.

Modi, N., Koskinen, J., DeChurch, L., & Contractor, N. (2025). Modeling the “who” and “how” of social influence in the adoption of health practices. *Social Networks*, 82, 99-110.

Cui, Y., Sun, Z., Xiao, Y., Sha, Z., Koskinen, J., Contractor, N., & Chen, W. (2025). Network analysis of two-stage customer decisions with preference-guided market segmentation. *Journal of Computing and Information Science in Engineering*, 25(6), 061003.

Modi, N., Lungeanu, A., DeChurch, L., & Contractor, N. (2025). The differential impacts of team diversity as variability versus atypicality on team effectiveness. *Scientific Reports*, 15(1), 4461.

Xiao, Y., Cui, Y., Koskinen, J., Contractor, N., Chen, W., & Sha, Z. (2025). Product design incorporating competition relations: A network-based design framework considering local dependencies. *Journal of Mechanical Design*, 147(2), 021702.

Contractor, N., & DeChurch, L. (2025). We are a go for launch! Working with NASA to forecast and improve team dynamics in space missions. *Journal of Applied Communication Research*, 53(1), 62-65.

Zhu, M., Su, R., Liu, L., & Contractor, N. (2025). Communicate or not: Exploring the different effects of instrumental and expressive networks on thriving at work. *Journal of Management & Organization*, 31(3), 1498-1515. <https://doi.org/10.1017/jmo.2024.55>

2024

Mukherjee, S., Huang, Y., Uzzi, B., & Contractor, N. (2024). Competing against former teammates predicts team victory. *Sports Economics Review*, 8, 100043.

Asencio, R., Mesmer-Magnus, J. R., DeChurch, L. A., & Contractor, N. (2024). Boundary transitions in dynamic teamwork. *Academy of Management Review*, 49(3), 597-617.

Xiao, Y., Cui, Y., Raut, N., Januar, J., Koskinen, J., Contractor, N., Chen, W., & Sha, Z. (2024). Survey data on customer two-stage decision-making process in household vacuum cleaner market. *Data in Brief*, 54, 110353.

Hsieh, K. Y., Xiao, P., Contractor, N., & Wang, L. (2024). Online community's recognition and continued participation in idea competitions. *Decision Sciences*, 55(2), 176-190. <https://doi.org/10.1111/deci.12578>

Lane, J. N., Leonardi, P. M., Contractor, N. S., & DeChurch, L. A. (2024). Teams in the digital workplace: Technology's role for communication, collaboration, and performance. *Small Group Research*, 55(1), 139-183.

DeChurch, L. A., Lungeanu, A., & Contractor, N. S. (2024). Think like a team: Shared mental models predict creativity and problem-solving in space analogs. *Acta Astronautica*, 214, 701-711.

2023

Sha, Z., Cui, Y., Xiao, Y., Xiao, Y., Stathopoulos, A., Contractor, N., Du, Y., & Chen, W. (2023). A network-based discrete choice model for decision-based design. *Design Science*, 9, e7.

Schecter, A., Hohenstein, J., Larson, L., Harris, A., Hou, T.-Y., Lee, W.-Y., Lauharatanahirun, N., DeChurch, L., Contractor, N., & Jung, M. (2023). Vero: An accessible method for studying human-AI teamwork. *Computers in Human Behavior*, 141, 107606.

Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2023). A tale of three teams: Effect of long-term isolation in SIRIUS-21 on crew interpersonal networks. *Acta Astronautica*, 212, 617-623.

Zhu, M., Liu, L., Su, R., & Contractor, N. (2023). Revisiting the effects of social networks on enterprise collaboration technology use: A fuzzy-set qualitative comparative analysis approach. *Decision Support Systems*, 174, 114017.

Lungeanu, A., Mesmer-Magnus, J. R., Niler, A. A., DeChurch, L. A., & Contractor, N. S. (2023). Organizing for Mars: A task management perspective on work within spaceflight multiteam systems. *Human Factors*, 65(6), 1199-1220.

Harris-Watson, A. M., Larson, L. E., Lauharatanahirun, N., DeChurch, L. A., & Contractor, N. (2023). Social perception in human-AI teams: Warmth and competence predict receptivity to AI teammates. *Computers in Human Behavior*, 145, 107765.

Wu, Y. J., Antone, B., DeChurch, L., & Contractor, N. (2023). Information sharing in a hybrid workplace: Understanding the role of ease-of-use perceptions of communication technologies in advice-seeking relationship maintenance. *Journal of Computer-Mediated Communication*, 28(4), zmad025.

Zaytsev, D. G., & Contractor, N. S. (2023). Introduction to the special issue on scientific networks. *Network Science*, 11(1), 1-4.

Lungeanu, A., Whalen, R., Wu, Y. J., DeChurch, L. A., & Contractor, N. S. (2023). Diversity, networks, and innovation: A text analytic approach to measuring expertise diversity. *Network Science*, 11(1), 36-64.

Rager, S., Leung, A., Pinegar, S., Mangels, J., Poole, M. S., & Contractor, N. (2023). Groups, governance, and greed: The ACCESS world model. *Computational and Mathematical Organization Theory*, 29(1), 52-83. <https://doi.org/10.1007/s10588-021-09352-x>

2022

Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2022). Leading teams over time through space: Computational experiments on leadership network archetypes. *The Leadership Quarterly*, 33(5), 101595. <https://doi.org/10.1016/j.leaqua.2021.101595>

Schecter, A., Nohadani, O., & Contractor, N. (2022). A robust inference method for decision-making in networks. *MIS Quarterly*, 46(2), 713-738.

Peters, E., Boyd, P., Cameron, L. D., Contractor, N., Diefenbach, M. A., Fleszar-Pavlovic, S., Markowitz, E., Salas, R. N., & Stephens, K. K. (2022). Evidence-based recommendations for communicating the impacts of climate change on health. *Translational Behavioral Medicine*, 12(4), 543-553.

Cui, Y., Ahmed, F., Sha, Z., Wang, L., Fu, Y., Contractor, N., & Chen, W. (2022). A weighted statistical network modeling approach to product competition analysis. *Complexity*, 2022(1), 9417869.

Twyman, M., Newman, D. A., DeChurch, L., & Contractor, N. (2022). Teammate invitation networks: The roles of recommender systems and prior collaboration in team assembly. *Social Networks*, 68, 84-96.

Gómez-Zarà, D., Das, A., Pawlow, B., & Contractor, N. (2022). In search of diverse and connected teams: A computational approach to assemble diverse teams based on members' social networks. *PloS One*, 17(11), e0276061.

2021

Wu, Y. J., Antone, B., Srinivas, A., DeChurch, L., & Contractor, N. (2021). Teamwork in the time of COVID-19: Creating, dissolving, and reactivating network ties in response to a crisis. *Journal of Applied Psychology*, 106(10), 1483-1492. <https://doi.org/10.1037/apl0000969>

Wagner, C., Strohmaier, M., Olteanu, A., Kiciman, E., Contractor, N., & Eliassi-Rad, T. (2021). Measuring algorithmically infused societies. *Nature*, 595(7866), 197-204.

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. <https://doi.org/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. <https://doi.org/10.1016/j.socnet.2021.02.003>

Bi, Y., Qiu, Y., Sha, Z., Wang, M., Fu, Y., Contractor, N., & Chen, W. (2021). Modeling multi-year customers' considerations and choices in China's auto market using two-stage bipartite network analysis. *Networks and Spatial Economics*, 21(2), 365-385.

2020

Niler, A. A., Mesmer-Magnus, J. R., Larson, L. E., Plummer, G., DeChurch, L. A., & Contractor, N. S. (2020). Conditioning team cognition: A meta-analysis. *Organizational Psychology Review*, 11(2), 144-174. <https://doi.org/10.1177/2041386620972112>

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).
<https://doi.org/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.
<https://doi.org/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. <https://doi.org/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. <https://doi.org/10.1093/joc/jqaa018>

Xie, J., Bi, Y., Sha, Z., Wang, M., Fu, Y., Contractor, N., Gong, L., & Chen, W. (2020). Data-driven dynamic network modeling for analyzing the evolution of product competitions. *Journal of Mechanical Design*, 142(3), 031112. <https://doi.org/10.1115/1.4045687>

Mell, J. N., DeChurch, L. A., Leenders, R. T. A., & Contractor, N. (2020). Identity asymmetries: An experimental investigation of social identity and information exchange in multiteam systems. *Academy of Management Journal*, 63(5), 1561-1590.

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>

2019

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.
<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. <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. <https://doi.org/10.1016/j.chb.2018.08.046>

Gómez-Zar4, D., Andreoli, S., DeChurch, L. A., & Contractor, N. S. (2019). Descubriendo colaboradores en l4nea: 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. <https://doi.org/10.1038/s41562-018-0460-y>

2018

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. <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. <https://doi.org/10.1109/MC.2018.2701637>

2017

Schecter, 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. <https://doi.org/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. <https://doi.org/10.1007/s11192-017-2455-2>

2016

Wang, M., Chen, W., Huang, Y., Contractor, N. S., & Fu, Y. (2016). Modeling customer preferences using multidimensional network analysis in engineering design. *Design Science*, 2, 2012-2028. <https://doi.org/10.1017/dsj.2016.11>

Pilny, A., Schecter, 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. <https://doi.org/10.1037/gdn0000054>

Ghasemian, F., Zamanifar, K., Ghasem-Aqae, N., & Contractor, N. (2016). Toward a better scientific collaboration success prediction model through the feature space expansion. *Scientometrics*, 108(2), 777-801. <https://doi.org/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. <https://doi.org/10.1177/204138661557831>

2015

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. <https://doi.org/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. <https://doi.org/10.1017/iop.2015.82>

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. <https://doi.org/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. <https://doi.org/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. <https://doi.org/10.1017/nws.2015.7>

2014

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. <https://doi.org/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. <https://doi.org/10.1177/0002764214556804>

Foucault Welles, B., Rousse, 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. <https://doi.org/10.1016/j.joi.2013.10.006>

2013

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. <https://doi.org/10.1109/MIS.2013.50>

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. *Foundations and Trends® in Web Science*, 4(2-3), 103-267. <https://doi.org/10.1561/18000000017>

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. <https://doi.org/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>

2012

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. <https://doi.org/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. <https://doi.org/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>

R 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. <https://doi.org/10.1631/jzus.C1200279>

2011

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 structurational 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>

Castells, M., Monge, P., & Contractor, N. (2011). Prologue to the special section: Network multidimensionality in the digital age. *International Journal of Communication*, 5, 6. <https://ijoc.org/index.php/ijoc/article/view/1103>

Contractor, N., Monge, P., & Leonardi, P. M. (2011). Multidimensional networks and the dynamics of sociomateriality: Bringing technology inside the network. *International Journal of Communication*, 5, 39. <https://ijoc.org/index.php/ijoc/article/view/1131>

Su, C., & Contractor, N. (2011). A multidimensional network approach to studying team members' information seeking from human and digital knowledge sources in consulting firms. *Journal of the American Society for Information Science and Technology*, 62(7), 1257-1275. <https://doi.org/10.1002/asi.21526>

Falk-Krzesinski, H. J., Contractor, N., Fiore, S. M., Hall, K. L., Kane, C., Keyton, J., Klein, J., Spring, B., Stokols, D., & Trochim, W. (2011). Mapping a research agenda for the science of team science. *Research Evaluation*, 20(2), 145-158.
<https://doi.org/10.3152/095820211X12941371876580>

2010

Falk-Krzesinski, H. J., Börner, K., Contractor, N., Fiore, S. M., Hall, K. L., Keyton, J., Spring, B., Stokols, D., Trochim, W., & Uzzi, B. (2010). Advancing the science of team science. *Clinical and Translational Sciences*, 3(5), 263-266.
<https://doi.org/10.1111/j.1752-8062.2010.00223.x>

Börner, K., Contractor, N., Falk-Krzesinski, H. J., Fiore, S. M., Hall, K. L., Keyton, J., Spring, B., Stokols, D., Trochim, W., & Uzzi, B. (2010). A multi-level systems perspective for the science of team science. *Science Translational Medicine*, 2(49), 24-49.
<https://doi.org/10.1126/scitranslmed.3001399>

Tian, Y., Srivastava, J., Huang, T., & Contractor, N. (2010). Social multimedia computing. *Computer*, 43(8), 27-36. <https://doi.org/10.1109/MC.2010.188>

Mahmassani, H. S., Chen, R. B., Huang, Y., Williams, D., & Contractor, N. (2010). Time to play? Activity engagement in multiplayer online role-playing games. *Transportation Research Record: Journal of the Transportation Research Board*, 2157(1), 129-137.
<https://doi.org/10.3141/2157-16>

Su, C., Huang, M., & Contractor, N. (2010). Understanding the structures, antecedents and outcomes of organisational learning and knowledge transfer: A multi-theoretical and multilevel network analysis. *European Journal of International Management*, 4(6), 576-601.

Yuan, C., Fulk, J., Monge, P., & Contractor, N. (2010). Expertise directory development, shared task interdependence, and strength of communication network ties as multilevel predictors of expertise exchange in transactive memory work groups. *Communication Research*, 37(1), 20-47. <https://doi.org/10.1177/009365020351469>

2009

Varda, D., Forgette, R., Banks, D., & Contractor, N. (2009). Social network methodology in the study of disasters: Issues and insights prompted by post-Katrina research. *Population Research & Policy Review*, 28(1), 11-29. <https://doi.org/10.1007/s11113-008-9110-9>

Contractor, N. (2009). The emergence of multidimensional networks. *Journal of Computer-Mediated Communication*, 14(3), 743-747.
<https://doi.org/10.1111/j.1083-6101.2009.01465.x>

Lazer, D., Pentland, A., Adamic, L., Aral, S., Barabasi, A. L., Brewer, D., Christakis, N., Contractor, N., Fowler, J., Gutman, M., Jebara, T., King, G., Macy, M., Roy, D., & Van Alstyne, M. (2009). Life in the network: The coming age of computational social science. *Science*, 323(5915), 721-723. <https://doi.org/10.1126/science.1167742>

2006

Contractor, N., Wasserman, S., & Faust, K. (2006). Testing multitheoretical, multilevel hypotheses about organizational networks: An analytic framework and empirical example. *Academy of Management Review*, 31(3), 681-703.
<https://doi.org/10.5465/amr.2006.21318925>

Palazzolo, E. T., Serb, D., She, Y., Su, C., & Contractor, N. S. (2006). Coevolution of communication and knowledge networks in transactive memory systems: Using computational models for theoretical development. *Communication Theory*, 16(2), 223-250.

2004

Katz, N., Lazer, D., Arrow, H., & Contractor, N. (2004). Network theory and small groups. *Small Group Research*, 35(3), 307-332.

2002

Contractor, N. S., & Monge, P. R. (2002). Managing knowledge networks. *Management Communication Quarterly*, 16(2), 249-258.

2001

Fesenmaier, J., & Contractor, N. (2001). The evolution of knowledge networks: An example for rural development. *The Journal of the Community Development Society*, 32(1), 160-175.

2000

Pollock, T., Whitbred, R. A., & Contractor, N. (2000). Social information processing and job characteristics: A simultaneous test of two theories with implications for job satisfaction. *Human Communication Research*, 26(2), 292-330.

1999

Contractor, N. S. (1999). Self-organizing systems research in the social sciences: Reconciling the metaphors and the models. *Management Communication Quarterly*, 13(1), 154-166.

1998

Heald, M., Contractor, N., Koehly, L. M., & Wasserman, S. (1998). Formal and emergent predictors of coworkers' perceptual congruence on an organization's social structure. *Human Communication Research*, 24(4), 536-563.

Ehrlich, M. C., & Contractor, N. S. (1998). "Shock" meets "community service": J.C. Corcoran at KMOX. *Journal of Radio Studies*, 5(1), 22-35.

1997

Hyatt, A., Contractor, N., & Jones, P. M. (1997). Computational organizational network modeling: Strategies and an example. *Computational and Mathematical Organizational Theory*, 2(4), 285-300.

1996

Contractor, N. S., Seibold, D. R., & Heller, M. A. (1996). Interactional influence in the structuring of media use in groups: Influence of members' perceptions of group decision support system use. *Human Communication Research*, 22(4), 451-481.

1993

Contractor, N. S., & Seibold, D. R. (1993). Theoretical frameworks for the study of structuring processes in group decision support systems: Adaptive structuration theory and self-organizing systems theory. *Human Communication Research*, 19(4), 528-563.

Contractor, N., & Ehrlich, M. (1993). Strategic ambiguity in the birth of a loosely coupled organization: The case of a \$50-million experiment. *Management Communication Quarterly*, 6(3), 251-281.

1992

Michaelson, A., & Contractor, N. (1992). Structural position and perceived similarity. *Social Psychology Quarterly*, 55(3), 300-310.

Monge, P. R., Cozzens, M. D., & Contractor, N. S. (1992). Communication and motivational predictors of the dynamics of organizational innovation. *Organization Science*, 3(2), 250-274.

1991

Waterman, D., Schechter, R., & Contractor, N. (1991). Overcoming barriers to the live arts: Can the media compensate? *Journal of Cultural Economics*, 15(2), 19-40.

1990

Rice, R., & Contractor, N. S. (1990). Conceptualizing effects of office information systems: A methodology and application for the study of alpha, beta and gamma change. *Decision Science*, 21(2), 301-317.

1988

Contractor, N. S., Singhal, A., & Rogers, E. M. (1988). Metatheoretical perspectives on satellite television and development in India. *Journal of Broadcasting & Electronic Media*, 32(2), 129-148.

1987

Cozzens, M. D., & Contractor, N. S. (1987). The effect of conflicting information on media skepticism. *Communication Research*, 14(4), 437-451.

1986

Contractor, N. S., Fulk, J., Monge, P. R., & Singhal, A. (1986). Cultural assumptions that influence the implementation of communication technologies. *Vikalpa*, 11(4), 287-300.

Professional / Nonrefereed Publications

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>

Tiropanis, T., Hall, W., Crowcroft, J., Contractor, N., & Tassiulas, L. (2015). Network science, web science and internet science: Comparing interdisciplinary areas. *Communications of the ACM*, 58(8), 76-82. <https://doi.org/10.1145/2699416>

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>

Book Chapters

Randazzo, C., Lee, E. G., & Contractor, N. S. (in press). The bot that knew too much: A transactive memory framework for human-AI teams. In J. L. Gibbs & E. Vaast (Eds.), *Research Handbook on Artificial Intelligence and Organizational Transformation*. Edward Elgar Publishing.

Xia, J., Gómez-Zarà, D., & Contractor, N. S. (forthcoming). The invisible manager: How team formation algorithms shape communication, collaboration, and access. In C. W. Piercy & A. Zanin (Eds.), *Teaming with Machines: How Contemporary Teams Collaborate with Complex Work Technologies*. Wiley. ISBN 978-1-394-40269-4.

Pilny, A., & Contractor, N. (2024). Networks. In V. Miller & M. S. Poole (Eds.), *Handbook of organizational communication theory and research* (pp. 359-379). De Gruyter. <https://doi.org/10.1515/9783110718508-019>

Schechter, A., & Contractor, N. (2023). Relational event models. In J. Scott, P. J. Carrington, & J. McLevey (Eds.), *The SAGE handbook of social network analysis* (2nd ed.). SAGE Publications.

Chen, W., Ahmed, F., Cui, Y., Sha, Z., & Contractor, N. (2023). Data-driven preference modelling in engineering systems design. *Handbook of Engineering Systems Design*, 1-34.

Jones, J. M., Carter, D. R., & Contractor, N. S. (2022). A network approach to studying team functioning. In Stephenson J. Beck, Joann Keyton, Marshall Scott Poole (Ed.), *The Emerald Handbook of Group and Team Communication Research* (pp. 89-108). Emerald.

Pendergraft, J. G., Carter, D. R., Trainer, H. M., Jones, J. M., Schechter, A., Shuffler, M. L., DeChurch, L., Contractor, N. (in press). Supporting spaceflight multiteam systems throughout long-duration exploration missions: A countermeasure toolkit. In L. Landon, S. Kelley, & E. Salas (Eds.), *Psychology and human performance in space programs, Volume 1: Research at the frontier*. Abingdon, UK: Taylor & Francis.

Mesmer-Magnus, J., Lungeanu, A., Harris, A., Niler, A., DeChurch, L. A., Contractor, N. (2020). Working in space: Managing transitions between tasks. In L. Landon, S. Kelley, & E. Salas

(Eds.), *Psychology and Human Performance in Space Programs, Extreme Application*. (pp. 179-203): CRC Press.

Antone, B., Lungeanu, A., Bell, S. T., DeChurch, L. A., & Contractor, N. (2020). Computational modeling of long-distance space exploration: A guide to Predictive and Prescriptive Approaches to the Dynamics of Team Composition. In L. Landon, S. Kelley, & E. Salas (Eds.), *Psychology and Human Performance in Space Programs, Research at the Frontier*. (pp. 107-130). CRC Press.

Contractor, N. (2019). How can computational social science motivate the development of theories, data, and methods to advance our understanding of communication and organizational dynamics?. In Foucault Welles, B. & González-Bailón, S. (Eds.), *The Oxford Handbook of Networked Communication*.
<https://doi.org/10.1093/oxfordhb/9780190460518.013.7>

Twyman, M., & Contractor, N. (2019). Team assembly. In K. L. Hall, A. L. Vogel, & R. T. Croyle (Eds.), *Strategies for Team Science Success: Handbook of Evidence-Based Principles for Cross-Disciplinary Science and Practical Lessons Learned from Health Researchers* (pp. 217–240). Springer International Publishing. Available online.

DeChurch, L. A., Bufton, G. M., Kay, S. A., Velez, C. V., & Contractor, N. S. (2019). Organizational learning and multiteam systems. In J. L. Argote & J. Levine (Eds.), *Handbook of Group and Organizational Learning*, Oxford University Press.

Foote, J., & Contractor, N. (2018). The behavior and network position of peer production founders. In *Transforming Digital Worlds* (Vol. 10766, pp. 99–106). Cham: Springer International Publishing.

Schechter A., Contractor N. (2017) Understanding and assessing collaborative processes through relational events. In: von Davier A., Zhu M., Kyllonen P. (Eds.), *Innovative Assessment of Collaboration. Methodology of Educational Measurement and Assessment* (pp. 223-231). Cham: Springer International Publishing.

Contractor, N., & Forbush, E. (2017). Networks. In C. R. Scott & L. K. Lewis, (Eds.), *The international encyclopedia of organizational communication*, (Vol. 22, pp. 1–25). Hoboken, NJ, USA: John Wiley & Sons, Inc. <https://doi.org/10.1002/9781118955567>

Zhu, M., Kuskova, V., Wasserman, S., & Contractor, N. (2016). Correspondence analysis of multirelational multilevel networks. In E. Lazega & T. A. B. Snijders (Eds.), *Multilevel Network Analysis for the Social Sciences* (pp. 145-172). Cham: Springer International Publishing.

Huang, Y., Weng, C., Lee, B., & Contractor, N. (2015). Semantic and social spaces: Identifying keyword similarity with relations. In E. Bertino & S. Matei (Eds.), *Roles, trust, and reputation in social media knowledge markets* (pp. 47–55). Computational Social Science Series. Cham: Springer International Publishing.

Ahmad, M. A., Shen, C., Srivastava, J., & Contractor, N. (2014). On the problem of predicting real world characteristics from virtual worlds. In A. Ahmad, C. Shen, J. Srivastava, & N.

contractor (Eds.), *Predicting real world behaviors from virtual world data* (pp. 1–18). Cham: Springer International Publishing.

Shumate, M., & Contractor, N. (2014). Emergence of multidimensional social networks. In L. L. Putnam & D. Mumby (Eds.), *Handbook of organizational communication* (pp. 451-474). Thousand Oaks, CA: Sage.

Margolin, D., Ognyanova, K., Huang, M., Huang, Y., & Contractor, N. (2012). Team formation and performance on Nanohub: A network selection challenge in scientific communities. In B. Vedres & M. Scotti (Eds.), *Networks in social policy problems* (pp. 80–100). Cambridge, UK: Cambridge University Press.

Contractor, N., & Su, C. (2012). Understanding groups from a network perspective. In A. Hollingshead & M. S. Poole (Eds.), *Research methods for studying groups and teams: A guide to approaches, tools, and technologies* (pp. 284-310). New York: Taylor & Francis/Routledge.

Poole, M. S., & Contractor, N. S. (2011). Conceptualizing the multitteam system as an ecosystem of networked groups. In Zaccaro, S. J., Marks, M. A., & DeChurch, L. A. (Eds.), *Multiteam Systems: An organizational form for dynamic and complex environments* (pp. 193-224). New York: Routledge Academic.

Pathak, N., Mane, S., Srivastava, J., Contractor, N., Poole, S., & Williams, D. (2008). Analysis of social networks and group dynamics from electronic communication. In Kargupta, H., Han, J., Yu, P. S., Motwani, R., & Kumar, V. (Eds.), *Next generation of data mining* (377-397). Chapman and Hall.

Hollingshead, A., & Contractor, N. (2006). New media and small group organizing. In L. A. Lievrouw & S. Livingstone (Eds.), *The handbook of new media (student edition)* (pp. 114-133). London: Sage.

Katz, N., Lazer, D., Arrow, H., & Contractor, N. (2005). The network perspective on small groups: Theory and research. In Poole, M. S. & Hollingshead, A. B. (Eds.), *Theories of small groups: Interdisciplinary perspectives* (pp. 277-312). Newbury Park, CA: Sage.

Contractor, N. S., & Monge, P. R. (2003). Using multi-theoretical multilevel models to study adversarial networks. In R. Breiger, K. Carley, & P. Pattison (Eds.), *Dynamic social network modeling and analysis: Workshop summary and papers* (pp. 324-344). Washington, D.C.: National Research Council.

Hollingshead, A. B., & Contractor, N. S. (2002). New media and organizing at the group level. In S. Livingstone & L. Lievrouw (Eds.), *Handbook of new media* (pp. 221-235). London: Sage.

Contractor, N. (2002). New media and organizing: Introduction. In S. Livingstone & L. Lievrouw (Eds.), *Handbook of new media* (pp. 201-205). London: Sage.

Contractor, N., & Baldwin, C. (2001). Adoption of communication technologies and the evolution of communication networks in organizations. In V. Burton, D. Herr, & T. Finnegan (Eds.), *Wayfarer: Charting advances in social science computing* (CD). Urbana, IL: University of Illinois Press.

Monge, P. R., & Contractor, N. S. (2001). Emergence of communication networks. In F. M. Jablin & L. L. Putnam (Eds.), *The new handbook of organizational communication* (pp. 440-502). Newbury Park, CA: Sage.

Shapiro, M. A., Lang, A., Hamilton, M., & Contractor, N. S. (2001). Information Systems Division: Intra-Personal, Meaning, Attitude and Social Systems. In W. Gudykunst (Ed.), *Communication yearbook, 24* (pp. 17-49). Newbury Park: Sage.

Contractor, N., & Bishop, A. P. (2000). Reconfiguring community networks: The case of PrairieKNOW. In T. Ishida (Ed.), *Digital cities: technologies, experiences, and future perspectives: Lecture notes in computer science* (pp. 151-164). Berlin: Springer-Verlag.

Contractor N., Zink, D., & Chan, M. (1998). IKNOW: A tool to assist and study the creation, maintenance, and dissolution of knowledge networks. In Toru Ishida (Ed.), *Community computing and support systems, lecture notes in computer science, 1519* (pp. 201-217). Berlin: Springer-Verlag.

Contractor, N., & O'Keefe, B. J. (1997). The politics of information systems: Rational designs and organizational realities. In B. Davenport Sypher (Ed.), *Case studies in organizational communication: Perspectives on contemporary work life* (pp. 203-218). New York: The Guilford Press.

Contractor, N. S., & Whitbred, R. (1997). Decision development in work groups: A comparison of contingency and self-organizing systems perspectives. In G. Barnett & L. Thayer (Eds.), *Organizational communication: Emerging perspectives* (pp. 83-104). New York: Ablex.

Contractor, N. S., & Grant, S. (1996). The emergence of shared interpretations in organizations: A self-organizing systems perspective. In J. Watt & A. VanLear (Eds.), *Cycles and dynamic processes in communication processes* (pp. 216-230). Newbury Park, CA: Sage.

Contractor, N. (1994). Self-organizing systems perspective in the study of organizational communication. In B Kovacic (Ed.), *New approaches to organizational communication* (pp. 39-66). Albany, NY: SUNY Press.

Seibold, D., Heller, M. A., & Contractor, N. (1994). Group Decision Support Systems (GDSS): Review, taxonomy, and research agenda. In B Kovacic (Ed.), *Organizational communication: New perspectives* (pp. 143-168). Albany, NY: SUNY Press.

Contractor, N. S., Singhal, A., & Rogers, E. M. (1993). Satellite television and development in India: A utopian, dystopian, neutral, and contingency view. In K. S. Nair & S. A. White (Eds.), *Perspectives on development communication*. Thousand Oaks, CA: Sage.

Seibold, D., & Contractor, N. (1993). Commentary on "Issues for a theory of high-speed management" by D. Cushman & E. King. In *Communication yearbook, 16* (pp. 237-246). Newbury Park, CA: Sage.

Contractor, N. S., & Eisenberg, E. M. (1990). Communication networks and new media in organizations. In J. Fulk & C. W. Steinfield (Eds.), *Organizations and communication technology* (pp. 143-172). Newbury Park, CA: Sage.

Monge, P. R., & Contractor, N. S. (1988). Communication networks: Measurement techniques. In C. H. Tardy (Ed.), *A Handbook for the study of human communication: Methods and instruments for observing, measuring, and assessing communication processes* (pp. 107-138). Norwood, NJ: Ablex.

Conference Proceedings

Entries in this section are fully refereed, archival conference proceedings. In computer science and information systems, including ACM CHI, CSCW and Web Science, these are peer-reviewed primary publication venues with acceptance rates comparable to selective journals.

Lyu, L., Li, H. H., Wang, D., Le, E. Y., DeChurch, L. A., & Contractor, N. S. (2026). AI as facilitator or expert? Role orientation and human re-engagement with an AI teammate. *Academy of Management Proceedings*, 2026(1).
<https://doi.org/10.5465/AMPROC.2026.266bp> (Best Paper)

Chan, M. A., DeChurch, L. A., & Contractor, N. (2025). Closing the loop: Multicommunicating in multiteam systems. *Academy of Management Proceedings*, 2025(1), 19707.

DeChurch, L. A., Lungeanu, A., Chan, M. A., & Contractor, N. (2025). When two is too many and not enough: Shared leadership in Ancient Rome (32 to 491 CE). *Academy of Management Proceedings*, 2025(1), 24683.

Antone, B., Lungeanu, A., DeChurch, L. A., Bell, S. T., & Contractor, N. S. (2021). Re-pairing to repair: A countermeasure that enhances crew relations in deep space. In *Proceedings of the International Astronautical Congress, IAC* (Vol. 1). International Astronautical Federation, IAF.

Gomez-Zara, D., DeChurch, L. A., & Contractor, N. (2021). Do I know you? The effects of social capital on self-assembled groups. In *Academy of Management Proceedings* (Vol. 2021, No. 1, p. 14637). Briarcliff Manor, NY 10510: Academy of Management.

Tyagi, A., Gómez-Zarà, D., & Contractor, N. S. (2020). How do friendship and advice ties emerge? A case study of graduate student social networks. In *Proceedings of the 2020 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, Virtual.

Tanaka, K., DeChurch, L. A., & Contractor, N. S. (2020) The impact of network acuity on information sharing under communication delays in space multiteam systems. *Proceedings of the International Astronautical Congress*.

Gómez-Zarà, D., DeChurch, L. A., & Contractor, N. S., (2020). A taxonomy of team-assembly systems: Understanding how people use technologies to form teams. In *Proc. ACM Hum.-Comput. Interact.* 4, CSCW2, Article 181 (October 2020), 35 pages.
<https://doi.org/10.1145/3415252>

Kaven, E., Kaven, I., Gómez-Zarà, D., DeChurch, L. A., & Contractor, N. S. (2020). Assessing how team task influences team assembly through network analysis. In *Proceedings of*

Complex Networks and Their Applications IX, 322-334. Springer International Publishing.
https://doi.org/10.1007/978-3-030-65351-4_26

Das, A., Gómez-Zarà, D., DeChurch, L., & Contractor, N. (2020). Forming diverse teams based on members' social networks: A genetic algorithm approach. In *Proceedings of Complex Networks and Their Applications IX*, 346-357. Springer International Publishing.
https://doi.org/10.1007/978-3-030-65351-4_28

Gómez-Zarà, D., Guo, M., DeChurch, L., & Contractor, N. (2020). The impact of displaying diversity information on the formation of self-assembling teams. In *Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20)*.
<https://doi.org/10.1145/3313831.3376654>

Ichhaporia, R., Gómez-Zarà, D., DeChurch, L., & Contractor, N. (2020). A network approach to the formation of self-assembled teams. *Complex Networks and Their Applications VIII*, 969–981. Springer International Publishing.
https://doi.org/10.1007/978-3-030-36683-4_77

Antone, B., Gupta, A., Bell, S., DeChurch, L., & Contractor, N. (2020). Testing influence of network structure on team performance using STERGM-based controls. *Complex Networks and Their Applications VIII*, 1018–1030. Springer International Publishing.
https://doi.org/10.1007/978-3-030-36683-4_81

Schecter, A., & Contractor, N. (2019). Uncovering latent archetypes from digital trace sequences. In *Proceedings of the 40th International Conference on Information Systems (ICIS 2019)*.

Harris, A. M., Gómez-Zarà, D., DeChurch, L. A., & Contractor, N. S. (2019). Joining together online: The trajectory of CSCW scholarship on group formation. In *Proc. ACM Hum.-Comput. Interact.*, 3(CSCW), 27. <https://dx.doi.org/10.1145/3359250>

Gómez-Zarà, D., Paras, M., Twyman, M., Lane, J. N., DeChurch, L. A., & Contractor, N. S. (2019, May). Who would you like to work with?. In *Proceedings of the 2019 ACM Conference on Human Factors in Computing Systems (CHI'19)*. <https://doi.org/10.1145/3290605.3300889>

Cedeno-Mieles, V., Ren, Y., Hu, Z., Deng, X., Contractor, N., Ekanayake, S., Epstein, J. M., Goode, B. J., Kuhlman, C. J., Machi, D., Macy, M. W., Marathe, M. V., Mortveit, H. H., Ramakrishnan, N., Saraf, P., Self, N. (2018). Pipelines and their compositions for modeling and analysis of controlled online networked social science experiments. *Proceedings of the Winter Simulation Conference*, Gothenburg, Sweden.

DeChurch, C., & Contractor, N. S. (2018). Using network science to discover the grand masters of the Florentine Renaissance. In L. M. Aiello, C. Cherifi, H. Cherifi, R. Lambiotte, P. Lio, & L. M. Rocha (Eds.), *Proceedings of the 7th International Conference on Complex Networks and Their Applications* (pp. 358–360).

Ren, Y., Cedeno-Mieles, V., Hu, Z., Deng, X., Adiga, A., Barrett, C., ... Macy, M. W. (2018). Generative modeling of human behavior and social interactions using abductive analysis.

2018 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 413–420.

Li, Y., Sun, Y., & Contractor, N. (2017). Graph mining assisted semi-supervised learning for fraudulent cash-out detection. *Proceedings of the 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2017*, 546–553. New York, NY, USA: ACM. <https://doi.org/10.1145/3110025.3110099>

Sha, Z., Wang, M., Huang, Y., Contractor, N., Fu, Y., & Chen, W. (2017). Modeling product co-consideration relations: A comparative study of two network models. *Proceedings of the International Conference on Engineering Design (ICED)*, Vol. 6, No. DS87-6, 317-326.

Wang, M., Sha, Z., Huang, Y., Contractor, N., Fu, Y., & Chen, W. (2016). Forecasting technological impacts on customers' co-consideration behaviors: A data-driven network analysis approach. *Proceedings of ASME 2016 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference*, Charlotte, NC.

Schechter, A. & Contractor, N. (2016). Modeling the joint dynamics of relational events and individual states. *Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, ASONAM 2016*, San Francisco, CA.

Whalen, R., Huang, Y., Tanis, C., Sawant, A., Uzzi, B., & Contractor, N. (2016). Citation distance: Measuring changes in scientific search strategies. *Proceedings of the 25th International Conference on World Wide Web, WWW '15 Companion*, Montreal, Canada.

Hogan, B., Melville, J. R., Philips, G. L., Janulis, P., Contractor, N., Mustanski, B. S., & Birkett, M. (2016). Evaluating the paper-to-screen translation of participant-aided sociograms with high-risk participants. *Proceedings of CHI Conference on Human Factors in Computing Systems*, San Jose, CA.

Pilny, A., Keegan, B., Foucault Welles, B., Riedl, C., Lazer, D., Radford, J., Ognyanova, K., DeChurch, L., Macy, M., Contractor, N., & Meleis, W. (2016). Designing online experiments: Citizen Science Approaches to Research. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW)*, San Francisco, CA.

Lungeanu, A., Sullivan, S., Contractor, N., & Wilensky, U. (2015). A Computational model of team assembly in emerging scientific fields. *Proceedings of the Winter Simulation Conference*, Huntington Beach, CA.

Wang, M., Chen, W., Huang, Y., Contractor, N. S., & Fu, Y. (2015). A multidimensional network approach for modeling customer-product relations in engineering design. *Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC/CIE)*, Boston, MA.

Whalen, R., & Contractor, N. (2015). Patent application citations and the examination process: a network-based date-sensitive method to analyze patent applications. *Proceedings of the Law & Big Data Workshop at the International Conference on Artificial Intelligence and Law*, San Diego, CA.

McDonald, J. D., DeChurch, L. A., Asencio, R., Carter, D. R., Mesmer-Magnus, J. R., & Contractor, N. S. (2015). Team task switching: A conceptual framework for understanding functional work shifts. *Proceedings of the International Annual Meeting of the Human Factors and Ergonomics Society (HFES)*, Vol. 2015-January, 1157-1161. <https://doi.org/10.1177/1541931215591179>

DeChurch, L. A., Carter, D., Zaccaro, S. J., & Contractor, N. S. (2014). Leadership and governance approaches for complex cooperative settings. *Proceedings of the NATO Human Factors and Medicine Panel. Effective Inter-Agency Interactions and Governance in Comprehensive Approaches to Operations*. Stockholm, Sweden.

Huang, Y., Ye, W., Bennett, N., & Contractor, N. (2013). Functional or social? Exploring teams in online games. *Proceedings of the 2013 Conference on Computer Supported Cooperative Work (CSCW)*, 399-408.

Xu, B., Huang, Y., Kwak, H., & Contractor, N. (2013). Structures of broken ties: Exploring unfollow behavior on Twitter. *Proceedings of the 2013 Conference on Computer Supported Cooperative Work (CSCW)*, 871-876. San Antonio, Texas, USA.

Xu, B., Huang, Y., & Contractor, N. (2013). Exploring Twitter networks in parallel computing environments. *Proceedings of the Conference on Extreme Science and Engineering Discovery Environment (XSEDE): Gateway to Discovery*. <https://doi.org/10.1145/2484762.2484811>

Ahmad, M., Keegan, B., Roy, A., Williams, D., Srivastava, J., & Contractor, N. S. (2013). Guilt by association? Network based propagation approaches for gold farmer detection. *Proceedings of the 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*.

McCusker, J. P., McGuinness, D. L., Lee, J., Thomas, C., Courtney, P., Tatalovich, Z., Contractor, N., Morgan, G., & Shaikh, A. (2013). Towards next generation health data exploration: A data cube-based investigation into population statistics for tobacco IT innovation. *Proceedings of the Hawaii International Conference On System Sciences (HICSS)*.

Keegan, B., Gergle, D., & Contractor, N. (2012). Staying in the loop: Structure and dynamics of Wikipedia's breaking news collaborations. *Proceedings of the 8th International Symposium on Wikis and Open Collaboration: WikiSym 2012*, Linz, Austria.

Keegan, B., Gergle, D., & Contractor, N. (2012). Do editors or articles drive collaboration? Multilevel statistical network analysis of wikipedia coauthorship. In S. Poltrack & C. Simone (Eds.), *Proceedings of the CSCW '12 Computer Supported Cooperative Work* (pp. 427-436). New York, USA: ACM. <https://doi.org/10.1145/2145204.2145271>

Ahmad, M., Borbora, Z., Srivastava, J., & Contractor, N. (2012). Love all, trust a few: Link prediction for trust and psycho-social factors in MMOs. In S. J. Yang, A. M. Greenberg, & M. Endsley (Eds.), *Lecture Notes in Computer Science: Vol. 7227. Social Computing, Behavioral - Cultural Modeling and Prediction 5th International Conference (SBP)* (pp. 123-130). Berlin: Springer. <https://doi.org/10.1007/978-3-642-29047-3>

Keegan, B., Ahmad, M. A., Williams, D., Srivastava, J., & Contractor, N. S. (2011). Sic transit gloria mundi virtuali? Promise and peril in the computational social science of clandestine organizing. In *Proceedings of the 3rd International Web Science Conference (WebSci '11)*, Koblenz, Germany. Association for Computing Machinery.

Ahmad, M. A., Keegan, B., Williams, D., Srivastava, J., & Contractor, N. (2011). Trust among rogues? A hypergraph approach for comparing clandestine trust networks in MMOGs. *Proceedings of the 5th International AAAI Conference on Weblogs and Social Media*, 10-17.

Fazel-Zarandi, M., Devlin, H. J., Huang, Y., & Contractor, N. (2011). Expert recommendation based on social drivers, social network analysis, and semantic data representation. *Proceedings of the 2nd International Workshop on Information Heterogeneity and Fusion in Recommender Systems*, 41-48.

Keegan, B., Gergle, D., & Contractor, N. (2011). Hot off the Wiki: Dynamics, practices and structures in Wikipedia's coverage of the Tōhoku catastrophes. *Proceedings of WikiSym11*, 105-113.

Ahmad, M., Keegan, B., Sullivan, S., Williams, D., Srivastava, J. & Contractor, N. (2011). Illicit bits: Detecting and analyzing contraband networks in massively multiplayer online games. *Proceedings of 2011 IEEE International Conference on Social Computing*.

Ahmad, M. A., Keegan, B., Sullivan, S., Williams, D., Srivastava, J., & Contractor, N. (2011). Towards analyzing adversarial behavior in clandestine networks. *Proceedings from the 2011 AAAI Workshop on Applied Adversarial Reasoning and Risk Modeling*, 75-76.

Keegan, B., Ahmad, M. A., Williams, D., Srivastava, J., & Contractor, N. (2010). Dark gold: Statistical properties of clandestine networks in massively multiplayer online games. *Proceedings of 2010 IEEE Second International Conference on Social Computing*, 201-208.

Ahmad, M. A., Borbora, Z., Srivastava, J., & Contractor, N. (2010). Link prediction across multiple social networks. *Proceedings of the 2010 IEEE International Conference on Data Mining Workshops*, 911-918.

Courtney, P., Shaikh, A. R., Contractor, N., McGuinness, D. L., Ding, L., Augustson, E. M., Blake, K., Morgan, G. D., Moser, R., Willis, G., & Hesse, B. W. (2010). Consumer health portal: An informatics tool for translation and visualization of complex, evidence-based population health data for cancer prevention and control. *Proceedings of the 138th American Public Health Association*.

Shaikh, A. R., Contractor, N., Moser, R., Morgan, G. D., Courtney, P. K., E. M. Augustson, A. M. Pilsner, & Hesse, B. W. (2009). PopSciGrid: Using cyberinfrastructure to enable data harmonization, collaboration, and advanced computation of nationally representative behavioral, demographic, and economic data. *Proceedings of the 137th Annual Public Health Association*.

Huang, Y., Zhu, M. Wang, J. Pathak, N., Shen, C., Keegan, B., Williams, D., & Contractor, N. (2009). The formation of task-oriented groups: exploring combat activities in online games.

Proceedings of the 2009 International Conference on Computational Science and Engineering, IEEE Computer Society, 4, 122-127.

Contractor, N. (2009). Understanding & enabling networks in digital government. *Proceedings of the 10th Annual International Conference on Digital Government Research. ACM International Conference Proceeding Series*, 390, 364-365.

Ahmad, M. A., Keegan, B., Srivastava, J., Williams, D., & Contractor, N. (2009). Mining for gold farmers: Automatic detection of deviant players in MMOGs. *Proceedings of the 2009 International Conference on Computational Science and Engineering*, 4, 340-345.

Huffaker, D., Wang, J., Treem, J., Ahmad, M. A., Fullerton, L., Williams, D., Poole, M. S., & Contractor, N. (2009). The social behaviors of experts in massive multiplayer online role-playing games. *Proceedings of the 2009 International Conference on Computational Science and Engineering*, 4, 326-331.

Neumeyer, X., Contractor, N., & Ehmann, K. (2008). Collaboration Networks in Micromanufacturing, *Proceedings of the 3rd International Conference on Micromanufacturing*, Pittsburgh, PA.

Huang, Y., Contractor, N., & Yao, Y. (2008). CI-KNOW: Recommendation based on social networks, *Proceedings of DG.O 2008 Annual conference for Digital Government*, Montreal, Canada.

Contractor, N., & Green, H. D. (2007). Cyberinfrastructure knowledge networks on the web a recommender system for locating resources in a knowledge network. *Proceedings of the 8th Annual International Digital Government Research Conference*, 256-257, Philadelphia, PA, USA: Digital Government Society of North America.

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.

Patel, J., Gupta, I., & Contractor, N. (2006). JetStream: Achieving predictable gossip dissemination by leveraging social networks principles. *Proceedings of the 5th IEEE International Symposium on Network Computing and Applications (IEEE NCA06)*.

Pathak, N., Mane, S., Srivastava, J., & Contractor, N. S. (2006). Knowledge perception analysis in a social network. *Proceedings of the 6th SIAM International Conference on Data Mining (SDM 06)*.

Contractor, N., & Leischow, S. (2005). Cyberinfrastructures for Public Health. *Proceedings of the 2005 National Conference on Digital Government Research*, 13-14. Atlanta, Georgia, USA: Digital Government Society of North America.

Contractor, N., Bishop, A. P., & Zink, D. (1999). PrairieKNOW: A tool to assist the study, creation, and growth of community networks. In H-J. Bullinger & J. Ziegler (Eds.), *Proceedings of HCI International '99 (the 8th International Conference on Human-Computer Interaction): Volume 2* (pp. 447-451). Mahwah, NJ: Lawrence Erlbaum.

Jacobs, J. L., Dorneich, M. C., Jones, P. M., O'Keefe, B. J. & Contractor, N. (1997). SPOT: Using collaborative technologies for developing collaborative technologies. *Proceedings of the 1997 IEEE International Conference on Systems, Man, and Cybernetics*, 1, 690-695, Orlando, FL.

Jones, P. M., Chin, G., Lucenti, M., Kim, H-J., Stigberg, D., Sherman, G., Contractor, N., O'Keefe, B. J., Whitbred, R., Grobler, F., Case, M., Heckel, J., Lu, S. C-Y. & Ganeshan, R. (1997). CITYSCAPE: Civil info-structure technology system for collaborative analysis, prediction, and evaluation. *Proceedings of the 1997 IEEE International Conference on Systems, Man, and Cybernetics*, 3, 2223-2227, Orlando, FL.

Jones, P. M., Contractor, N., O'Keefe, B., Lu, S., Case, M., Lawrence, P., & Grobler, F. (1995). Workflow and cooperative problem solving in civil infrastructure management. *Proceedings of the IEEE 1995 International Conference on Systems, Man, and Cybernetics*, 5, 4575-4580, Vancouver, British Columbia, Canada.

Jones, P. M., Contractor, N., O'Keefe, B., & Lu, S. C-Y. (1994). Competence models and self-organizing systems: Towards intelligent, evolvable, collaborative support. *Proceedings of the IEEE 1994 International Conference on Systems, Man, and Cybernetics*, 1, 367-372, San Antonio, TX.

Case, M., Contractor, N., Jones, P. M., Lu, S. C-Y., & O'Keefe, B. J. (1992). Team engineering analysis and modeling: Toward a normative model of team interaction. *Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics*, Chicago IL.

SOFTWARE DEVELOPMENT

Network Strengths Finder: Web- and AI-based tool for individuals to assess and leverage the strengths they derive from their networks, 2025-present.

People Analytics for Strategic Organizing (PASO): Platform to leverage network insights to staff teams, 2024-present.

Tool for Evaluating and Mitigating Space Team Risk (TEAMSTaR): Prototype web platform for NASA mission support and crew members to directly assess the current and future health of a crew, make informed decisions about crew membership and assignments, and receive mitigation strategies, 2021-present.

Network Canvas: Open-source software suite designed to simplify the collection, management, and analysis of complex social network data through an intuitive, interview-based visual interface. Co-Investigator, 2020-present.

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

Technical Support Unit Influence Strategy Wizard: Recommender system for scaling up health innovations in Bihar, India, 2014-2017.

My Dream Team: Team recommender system, 2013-present.

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

VIVO Recommender: Recommending teams for scientific research, 2012-2017.

Semantic Recommender: Semantic web cyberinfrastructure for inquiring knowledge networks on the web, 2011-2017.

C-IKNOW: Cyberinfrastructure for Inquiring Knowledge Networks on the Web: People recommender system, 2007-2010.

IKNOW: Inquiring Knowledge Networks on the Web: Web-based tool for mapping and analyzing knowledge networks, 1997-2007.

Blanche: Computational modeling environment for network evolution, 1997-2007.

CURRENTLY FUNDED RESEARCH

National Science Foundation: *ADVENT: Advancing Diverse Viable Effective Networked Teams* (2023-2027; NSF 2341432)

National Science Foundation: *WECAN: Wellbeing Enhancement through Crowd-sourced Assessment of Neighborhood-infrastructure* (2023-2025; NSF 2332339)

Army Research Lab: *TEAMS: Teamwork-Enhancing Adaptive Machine Synergies* (2023-2025, W911NF-23-2-0217-P00002)

PREVIOUSLY FUNDED RESEARCH

Microsoft Research: *Deciphering the Structural Signatures of High-Performing Human-AI Teams* (2023-2025)

National Aeronautics and Space Administration: *TEAMSTaR: Tool for Evaluating and Mitigating Space Team Risk: Composing Teams with TEAMSTaR* (2021-2025; NASA 80NSSC21K0925)

Government of India: *Center of Excellence in Sports Analytics, IIT Madras* (2021-2026, \$485,000). Co-Principal Investigator.

National Science Foundation: *The Next Normal for Teaming: Transitioning Out of COVID-19* (2021-2026, \$600,000). Principal Investigator.

National Aeronautics and Space Administration: *FUSION: Facilitating Unified Systems of Interdependent Organizational Networks* (80NSSC18K0511)

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

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

National Institute on Drug Abuse: *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, \$3,012,132). 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 Institute of Drug Abuse: *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.

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: Groupscape: 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).

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).

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.

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.

INVITED PRESENTATIONS, KEYNOTE ADDRESSES, AND DISTINGUISHED LECTURES

Professor Contractor has delivered over 250 invited presentations, keynote addresses, and distinguished lectures.

Selected Invited Presentations, Keynotes, and Distinguished Lectures

2026

Contractor, N. S. (2026, July 30). Keynote address [Keynote]. Winter School, Centre for AI, Trust and Governance, University of Sydney, Virtual.

Contractor, N. S. (2026, June 4). Keynote address [Keynote]. 76th Annual International Communication Association Conference, Surakarta Hub, Universitas Sebelas Maret, Virtual.

Contractor, N. S. (2026, April 10). Keynote address [Keynote]. 10th Annual Health Scholar Showcase, Translational Health Research Center, Texas State University, San Marcos, TX.

2025

Contractor, N. S. (2025, November 21). Generative AI in Research: Challenges, Opportunities, and Innovations [Inaugural address]. Human and Digital Mutualism: Code, Culture and Communication, Mahindra University and ICA India Chapter, Hyderabad, India.

Contractor, N. S. (2025, October 21). Generative AI in Research: Challenges, Opportunities, and Innovations [Keynote address]. 2025 ICA Regional Conference, University of Science and Technology of China, Hefei, China.

Contractor, N. S. (2025, September 1). AI-Augmented Scholarly System [Invited presentation]. RAWABET: Shaping the AI-Empowered Future of Knowledge, Scholarship, and Creativity, Northwestern University in Qatar, Doha, Qatar.

Contractor, N. S. (2025, May 28). From social media to AI: Lessons learned [Invited chair and moderator]. Digital Humanism Conference 2025, Vienna, Austria. Presenters were Christopher Bail, Sunimal Mendis and Max Schrems.

2024

Contractor, N. S. (2024, November 29). Scientific research: Two paradigm shifts? [Invited presentation]. Session on The Impact on Scientific Research, workshop A Paradigm Shift in Computer Science?, TU Wien and Institute for Human Sciences, Vienna, Austria. Commentary by Georg Dorffner and Günter Klambauer.

Contractor, N. S. (2024, September 11). Leveraging Network Science to Address Grand Societal Challenges [Invited lecture]. Future Directions of Applied Communication Research Lecture Series, Centre for Culture-Centered Approach to Research and Evaluation, Massey University, Virtual.

Contractor, N. S. (2024, September 2). Vienna Manifesto on Digital Humanism: The first five years [Invited panelist]. Digital Humanism Initiative, TU Wien, Vienna, Austria.

Contractor, N. S. (2024, April 2). Leveraging Network Science and Big Data to Address Grand Societal Challenges [Special lecture]. Department of English Journalism, Indian Institute of Mass Communication, New Delhi, India.

2023

Contractor, N. S. (2023, April 25). People Analytics: Using Digital Exhaust to Leverage Network Insights in the Algorithmically Infused Workplace [Distinguished lecture]. Department of Computer Science, Hong Kong Baptist University, Hong Kong.

Contractor, N. S. (2023, March 18). People Analytics: Using Digital Exhaust from the Web to Leverage Network Insights in the Algorithmically Infused Workplace [Keynote address]. Workshop on Web Science for Development, International Institute of Information Technology Bangalore, Bengaluru, India.

Contractor, N. S. (2023, February 15). People Analytics: Using Digital Exhaust to Leverage Network Insights in the Algorithmically Infused Workplace [Distinguished lecture]. Organizational Behavior Seminar, Stanford University, Stanford, CA.

Contractor, N. S. (2023, February 10). People Analytics: Using Digital Exhaust from the Web to Leverage Network Insights in the Algorithmically Infused Workplace [Keynote address]. NetSci-X 2023, Buenos Aires, Argentina.

2022

Contractor, N. S. (2022, December 18). People Analytics: Using Digital Exhaust to Leverage Network Insights in the Algorithmically Infused Workplace [Invited special talk]. Network Science in Management Conference, Indian Institute of Management Ahmedabad, Ahmedabad, India.

Contractor, N. S. (2022, March 24). Leveraging Collaborative Networks [Invited presentation]. Road to Leadership Symposium, Northwestern Alumni Association, Virtual.

2021

Contractor, N. S. (2021, November). People Analytics: Using Digital Exhaust From the Web to Leverage Network Insights in the Algorithmically Infused Workspace [Invited lecture]. Hong Kong Baptist University, Virtual.

Contractor, N. S. (2021, October 22). Reimagining Theories and Methods to Understand and Enable the Algorithmically Infused Changing Nature of Work [Distinguished lecture]. Shanghai Jiao Tong University, Virtual.

Contractor, N. S. (2021, August 30). Reimagining Theories and Methods to Understand and Enable the Algorithmically Infused Changing Nature of Work [Distinguished lecture]. Seoul National University International Scholars Seminar Series, Virtual.

Contractor, N. S. (2021, August 24). Reimagining Theories and Methods to Understand and Enable the Algorithmically Infused Changing Nature of Work [Keynote address]. National University of Singapore Global Research Forum 2021, Virtual.

Contractor, N. S. (2021, August). Increasing Awareness about Network Awareness in Scientific Networks [Invited presentation]. U.S. National Academies of Sciences, Engineering, and Medicine Committee for Addressing Inaccurate and Misleading Information about Biological Threats through Scientific Collaboration and Communication, Virtual.

Contractor, N. S. (2021, May 29). People Analytics: Using Digital Exhaust from the Web to Leverage Network Insights in the Workplace [Keynote address]. 1st Workshop on Computational Methods in Social Sciences, 71st ICA Annual Conference Regional Hub – China, Virtual.

Contractor, N. S. (2021, May 20). Designing and Keeping Great Teams: Lessons from Preparing for Mars – What can PLM Professionals Learn from This? [Keynote address]. PLM Road Map & PDT Spring 2021, Virtual.

Contractor, N. S. (2021, April 20). Emerging Communication Architectures and the Changing Nature of Work [Keynote address]. 9th International Conference “Comparative Media Studies in Today’s World” (CMSTW), St. Petersburg, Russia, Virtual.

Contractor, N. S. (2021, April). People Analytics: Using Digital Exhaust from the Web to Leverage Network Insights in the Workplace [Invited presentation]. Department of Industrial and Systems Engineering, University of Minnesota, Virtual.

Contractor, N. S. (2021, March). People Analytics: Using Digital Exhaust from the Web to Leverage Network Insights in the Workplace [Invited presentation]. National Institute of Industrial Engineering, Virtual.

Contractor, N. S. (2021, March). People Analytics: Understanding & Enabling the Future of Work on Earth – and in Space [Invited presentation]. Institute for Analytical Sociology International Roundtable on Computational Social Science, Virtual.

2020

Contractor, N. S. (2020, November). Using Digital Traces to Leverage Network Insights During COVID-19 Today – and in Space in the Future [Invited presentation]. Department of Organization and Human Resources, School of Management, University at Buffalo, Virtual.

Contractor, N. S. (2020, November). People Analytics: Using Digital Exhaust from the Web to Leverage Network Insights in the Workplace [Invited presentation]. Global HR Forum 2020, Seoul, South Korea, Virtual.

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

Contractor, N. S. (2020, May). (Re-)pairing Teams for the Moon [Invited presentation]. MORS Brownbag Series, Virtual.

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

Contractor, N. S. (2020, February). Some Assembly Required: Organizing in the 21st Century [Invited colloquium]. University of California, Santa Barbara, CA.

2019

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

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

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

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

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

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

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

Contractor, N. S. (2019, April 25). People Analytics: Understanding and Enabling the Future of Work [Invited presentation]. Network Science Institute, Northeastern University, Boston, MA.

Contractor, N. S. (2019, March). Leveraging the Next Decade of Computational Social Science to Address Grand Societal Challenges [Invited seminar]. University of Michigan Survey Research Center, Ann Arbor, MI.

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

Contractor, N. S. (2019, January 4). Relational Analytics: Transforming the Future of Work [Keynote address]. International School and Conference on Network Science (NetSci-X), Santiago, Chile.

2018

Contractor, N. S. (2018, November). Complementarity of the Network Sciences: Distinctions, Tensions and Synergies Across SNA, NS and the Other System Sciences [Invited panelist]. North American Regional Social Networks Conference of the International Network for Social Network Analysis, Washington, DC.

Contractor, N. S. (2018, October 17). Social Isolation: A Challenge In and Out of This World [Invited presentation]. Amazon "All Boats Rise? Social Capital, Promise and Peril," Seattle, WA.

Contractor, N. S. (2018, October 18). Inhaling Digital Exhaust Data from Enterprise Social Media to Understand and Enable Teaming [Invited presentation]. Inaugural Case Workshop on Digital Innovation, Case Western Reserve University, Cleveland, OH.

Contractor, N. S. (2018, February 16). Combining Big Data and Conventional Methods [Keynote address]. Computational Communication Science Conference, Hanover, Germany.

2017

Contractor, N. S. (2017, October 27). Leveraging Computational Social Science to Address Grand Societal Challenges [Invited seminar]. Weatherhead School of Management, Case Western Reserve University, Cleveland, OH.

Contractor, N. S. (2017, October 18). Some Assembly Required: Leveraging Computational Social Science to Understand and Enable Team Assembly [Invited lecture]. Centre de Sociologie des Organisations, Sciences Po, Paris, France.

Contractor, N. S. (2017, October 10). Some Assembly Required: Leveraging Computational Social Science to Understand and Enable Team Assembly [Welcome and opening plenary address]. Atlanta Conference on Science and Innovation Policy, Atlanta, GA.

Contractor, N. S. (2017, July 1). Leveraging Computational Social Science to Address Grand Societal Challenges [Keynote address]. Web Science Summer School, St. Petersburg, Russia.

Contractor, N. S. (2017, June 15). Some Assembly Required: Organizing in the 21st Century [Plenary address]. Collective Intelligence Conference, New York University Tandon School of Engineering, Brooklyn, NY.

Contractor, N. S. (2017, May 18). Leveraging Computational Social Science to Address Grand Societal Challenges [Gerald P. Mohrmann Memorial Lecture]. Institute for Social Sciences, University of California, Davis, CA.

Contractor, N. S. (2017, April 26). Building and Leveraging Powerful Social Networks [Keynote address]. 5th Annual Network Leadership Training Academy, University of Colorado Denver, Denver, CO.

Contractor, N. S. (2017, March 13). Creating Effective Teams [Keynote address]. Center for Technological and Pedagogical Innovation (CITEP), University of Buenos Aires, Buenos Aires, Argentina.

Contractor, N. S. (2017, February 13). Bridging the Boundary, while Minding the Seams: Boundary Propensities in Multiteam Systems [Invited lecture]. Center for Work, Technology, and Organization, Stanford University, Stanford, CA.

2016

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

Contractor, N. S. (2016, September 9). Leveraging Computational Social Science to Address Grand Societal Challenges [Invited seminar]. Department of Computer Science and Automation, Indian Institute of Science, Bangalore, India.

Contractor, N. S. (2016, June 30). Leveraging Web/Internet/Network Sciences (WINS) to Address Grand Societal Challenges [Keynote address]. Web Science Summer Institute, Koblenz, Germany.

Contractor, N. S. (2016, May 16). Building and Leveraging Powerful Social Networks [Keynote address]. 4th Annual Network Leadership Training Academy, University of Colorado Denver, Denver, CO.

Contractor, N. S. (2016, March 28). Leveraging Computational Social Science to Address Grand Societal Challenges [Distinguished Lecture]. Educational Testing Service Seminar Series, Princeton, NJ.

Contractor, N. S. (2016, March 13). The Science of Team Science [Keynote address]. "Intra- and Interorganizational Conditions for Interorganizational Research Cooperation," University of Bremen and MARUM, Bremen, Germany.

Contractor, N. S. (2016, March 4). Leveraging Computational Social Science to Address Grand Societal Challenges [Lambda Pi Eta Choice Scholar Lecture]. University of California, Santa Barbara, CA.

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

Contractor, N. S. (2016, February 6). Reflections: Lessons Learned [Plenary speaker]. 22nd Annual Organization Science Winter Conference: Innovations & Organizations, Park City, UT.

2015

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

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

Contractor, N. S. (2015, June 18). Leveraging Computational Social Science to Address Grand Societal Challenges [Distinguished Lecture]. North Carolina State University Laboratory for Analytic Sciences, Raleigh, NC.

Contractor, N. S. (2015, June 9). Leveraging Computational Social Science to Address Grand Societal Challenges [Distinguished Lecture]. Vienna University of Technology PhD School Series "Current Trends in Computer Science," Vienna, Austria.

Contractor, N. S. (2015, June 2). Leveraging Computational Social Science to Address Grand Societal Challenges [Keynote address]. NetSci Computational Social Science Conference, Zaragoza, Spain.

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

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

Contractor, N. S. (2015, March 10). Leveraging Computational Social Science to Address Grand Societal Challenges [Distinguished Lecture]. Machine Learning and Data Analytics Symposium, Doha, Qatar.

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

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

2014

Contractor, N. S. (2014, October 22). Leveraging Computational (e)Social Science to Address Grand Societal Challenges [Keynote address]. 10th IEEE International Conference on eScience, Guarujá, São Paulo, Brazil.

Contractor, N. S. (2014, September 5). Leveraging Network Science to Address Grand Societal Challenges [Inaugural lecture]. Elihu Katz Colloquia on Communication and Media Studies, Annenberg School for Communication, University of Pennsylvania, Philadelphia, PA.

Contractor, N. S. (2014, August 4). Toward a Network Science of Digital Data in Organizations [Plenary speaker]. Communication and Information Systems Division, Academy of Management Annual Meeting, Philadelphia, PA.

2013

Contractor, N. S. (2013, December 13). Some Assembly Required: Organizing in the 21st Century [Keynote address]. 3rd Indian Academy of Management Conference, Indian Institute of Management Ahmedabad, India.

Contractor, N. S. (2013, October 19). Can Big Data Motivate New Theories & Methods? [Plenary speaker]. 2013 International Conference on Advanced Media Technologies and Education, Shanghai, China.

Contractor, N. S. (2013, October 1). Some Assembly Required: Organizing in the 21st Century [Keynote presentation]. 14th IFIP Working Conference on Virtual Enterprise PRO-VE'13, Dresden, Germany.

Contractor, N. S. (2013, September 23). Leveraging Social Networks for Science Communication [Plenary speaker]. National Academy of Sciences Arthur M. Sackler Colloquium on the Science of Science Communication II.

Contractor, N. S. (2013, September 6). Some Assembly Required: Organizing in the 21st Century [Keynote address]. 2013 International Cyber Security Strategy Congress, Leuven, Belgium.

Contractor, N. S. (2013, August 27). Some Assembly Required: Organizing in the 21st Century [Opening keynote]. 11th International Conference on Business Process Management, Beijing, China.

Contractor, N. S. (2013, July 26). Some Assembly Required: Organizing in the 21st Century [Closing keynote]. 2013 Big Ten Development Conference, Evanston, IL.

Contractor, N. S. (2013, June 6). Some Assembly Required: Organizing in the 21st Century [Keynote address]. International School and Conference on Network Science, Copenhagen, Denmark.

2012

Contractor, N. S. (2012, December 16). Some Assembly Required: Organizing in the 21st Century [Keynote address]. 2012 ASE/IEEE International Conference on Social Informatics, Washington, DC.

Contractor, N. S. (2012, November 16). Some Assembly Required: Organizing in the 21st Century [Keynote address]. 1st China National Conference on Social Computing, Beijing, China.

Contractor, N. S. (2012, November 9). The Future of Team Science [Keynote address]. Dr. Harold Burdette Annual Fall Conference on Team Science, Indiana University-Purdue University Indianapolis, Indianapolis, IN.

Contractor, N. S. (2012, October 28). The Assembly of Multiteam Systems [Dinner keynote]. Advancing the Science of Multiteam Systems meeting, Varenna, Italy.

Contractor, N. S. (2012, October 26). Some Assembly Required: Organizing in the 21st Century [Opening keynote]. 1st Michigan State University Cyberinfrastructure Days, East Lansing, MI.

Contractor, N. S. (2012, September 24). Some Assembly Required: Organizing in the 21st Century [Opening plenary]. HUBUB 2012 Annual HubZero Conference, Indianapolis, IN.

Contractor, N. S. (2012, September 10). Some Assembly Required: Organizing in the 21st Century [Keynote address]. Digital Research 2012, Oxford University, Oxford, UK.

Contractor, N. S. (2012, April 26). Some Assembly Required: Organizing in the 21st Century [Plenary address]. SIAM International Conference on Data Mining, Anaheim, CA.

Contractor, N. S. (2012, April 5). Some Assembly Required: Organizing in the 21st Century [Keynote address]. Crossroads Seminar Series, George Washington University, Washington, DC.

2011

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

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

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

Contractor, N. S. (2011, June 8). From Disasters to WoW: Using Web Science to Understand and Enable 21st Century Multidimensional Networks [Keynote address]. 22nd ACM Conference on Hypertext and Hypermedia, Eindhoven, Netherlands.

Contractor, N. S. (2011, May 20–21). Social and Knowledge Network-Building to Advance Global Health Decision-Making [Keynote lecture]. Advancing Global Health Decision-Making Conference, Rutgers University, New Brunswick, NJ.

Contractor, N. S. (2011, May 16–17). Enabling and Understanding Networks in Virtual Organizations [Keynote address]. National Science Foundation “Toward a Science of Virtual Organizations,” University of Central Florida, Orlando, FL.

Contractor, N. S. (2011, January 24). Understanding and Enabling Networks [Keynote address]. Etmaalvoor de Communicatiewetenschap, University of Twente, Enschede, Netherlands.

2010

Contractor, N. S. (2010, October 6). Using Web Science to Understand and Enable Society [Keynote address]. World Wide Web Consortium (W3C) Conference, Belo Horizonte, Brazil.

Contractor, N. S. (2010, September 13). Some Assembly Required: Understanding and Enabling Team Assembly [Honorary Professor Lecture]. Fudan University School of Management, Shanghai, China.

Contractor, N. S. (2010, August 25). Using Web Science to Understand and Enable Society [Keynote address]. Inauguration of the Brazilian Institute for Web Science, Rio de Janeiro, Brazil.

Contractor, N. S. (2010, August 21). Some Assembly Required: Understanding and Enabling Team Assembly [Keynote address]. IEEE Second International Conference on Social Computing, Minneapolis, MN.

Contractor, N. S. (2010, August 12). Understanding and Enabling Team Science [Opening keynote]. First Annual National VIVO Conference, New York, NY.

Contractor, N. S. (2010, July 21–24). Some Assembly Required: Understanding and Enabling Team Assembly [Keynote address]. GESIS 50th Anniversary Celebration and Institute Day, Cologne, Germany.

Contractor, N. S. (2010, June 9–11). Using Network Science to Understand and Enable Team Assembly [Keynote address]. Lausanne Workshop on Multi-Disciplinary Approaches to Complexity, Networks, and Geosimulations, University of Lausanne, Switzerland.

Contractor, N. S. (2010, June 1). Some Assembly Required: Leveraging Web Science to Understand and Enable Team Assembly [Keynote address]. Extended Semantic Web Conference (ESWC 2010), Heraklion, Greece.

Contractor, N. S. (2010, March 31). Computational Modeling to Advance Theory Construction in the Social Sciences [Keynote address]. International Conference on Social Computing, Behavioral Modeling, and Prediction, Bethesda, MD.

2009

Contractor, N. S. (2009, November 12). Leveraging Powerful Networks to Address Health Challenges [Keynote address]. Young Adult Alliance “Building Bridges and Collaborations” Annual Meeting, Lance Armstrong Foundation, Austin, TX.

Contractor, N. S. (2009, October 24). Understanding and Enabling Team Assembly [Plenary speaker]. International NSF Workshop on Connected Multimedia, Hangzhou, China.

Contractor, N. S. (2009, April 25). Understanding and Enabling Team Assembly [Closing keynote]. Annual Meeting of the Society of Behavioral Medicine, Montreal, Canada.

Contractor, N. S. (2009, April 24). Understanding and Enabling Team Assembly [Invited plenary]. Studying Society in a Digital World, Princeton University, Princeton, NJ.

Contractor, N. S. (2009, March 24). Global Technologies and Networked Communities [Opening keynote]. ceremony inaugurating the Northwestern University in Qatar campus, Doha, Qatar.

Contractor, N. S. (2009, March 20). Leveraging Web Science to Understand and Enable Society [Keynote address]. 1st Web Science Conference: Celebrating the 20th Anniversary of the Web, Athens, Greece.

Contractor, N. S. (2009, February 2). Understanding and Enabling Networks to Advance Engineering Education [Keynote address]. Annual NSF Engineering Education Awardees Conference, Reston, VA.

2008

Contractor, N. S. (2008, November 6). Using Networks to Mobilize for Global Events [Keynote address]. Milan World Expo 2015 launch, Milan, Italy.

2007

2006

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

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

Contractor, N. S. (2006, February 2). From Disasters to WoW: Enabling Communities with Cyberinfrastructure [Walter Fisher Distinguished Lecture]. Annenberg School for Communication, University of Southern California, Los Angeles, CA.

2005

Contractor, N. S. (2005, August 16). Social Networks and Distributed Communities of Practice [Keynote address]. Workshop on Sustaining Distributed Communities of Practice, International Centre for Governance and Development, University of Saskatchewan, Saskatoon, Canada.

Contractor, N. S. (2005, June 14). Socio-technical Challenges in Designing 21st Century Cyberinfrastructure to Enable Networks in Communities [Keynote address]. 2nd International Communities & Technologies Conference, Milan, Italy.

Contractor, N. S. (2005, March 28). Co-evolution of Knowledge Networks in 21st Century Organizational Forms [15th Annual Wayne Thompson Distinguished Lecture]. Western Illinois University, Macomb, IL.

Contractor, N. S. (2005, March 14). ICT Support in Emergency Management [Keynote address]. eGovernment der Oesterreichischen Computer Gesellschaft Conference, Vienna, Austria.

2004

Contractor, N. S. (2004, November 24). 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. S. (2004, May 18). Co-evolution of Knowledge Networks and 21st Century Organizational Forms [Plenary lecture]. Understanding Complex Systems: Networks Conference, Urbana, IL.

Contractor, N. S. (2004, April 30). Designing Knowledge Networks for Organizational Change [Keynote address]. "Network of Networks," National Institutes of Health, Rockville, MD.

2003

Contractor, N. S. (2003, November 14). Emergence of Communication Networks in the 21st Century [Keynote address]. inauguration of CITÉ de l'Université de Montréal, Montreal, Canada.

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

Contractor, N. S. (2003, June 11). Co-evolution of Multidimensional Networks [Keynote address]. Multi-level Network Analysis of the Cooperation Between Firms, University of Surrey, Surrey, UK.

2002

Contractor, N. S. (2002, April 22). The Power of the Network: Technology and New Organizational Forms [Keynote address]. National Laboratory of Tourism and e-Commerce Forum on Technology and Change, Urbana, IL.

2001

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

Contractor, N. S. (2001, April). The Use of Technologies to Support and Reconfigure Human Resource Functions in 21st Century Organizational Forms [Keynote address]. Spring Roundtable on Human Resource Management and the Web: Evolution or Revolution?, Center for Human Resource Management, Oak Brook, IL.

2000

Contractor, N. S. (2000, August). Communication Through Knowledge Networks and the Future of Organizational Structures [Keynote address]. Association of Indiana Convention and Visitors Bureau Annual Educational Conference, Merrillville, IN.

Contractor, N. S. (2000, March). Studying and Using Communication Networks in the 21st Century [Keynote address]. Workshop for Network of Communication Researchers in Thailand, Chulalongkorn University, Bangkok, Thailand.

Contractor, N. S. (2000, February). Emergence of Communication Networks: A Self-Organizing Systems Perspective [Keynote address]. Finnish Speech Communication Association Conference, Helsinki, Finland.

1999

Contractor, N. S. (1999, July). Social Capital and Knowledge Capital in Network Forms of Organizing [Keynote address]. workshop on Laboratorio di Knowledge Management: Il contributo delle tecnologie al knowledge management, Istituto RSO, Torino, Italy.

Contractor, N. S. (1999, June). Using Technologies to Build Productive Relationships [Keynote address]. McKinsey & Company “Mini-Oxford,” British Library Conference Centre, London, UK.

Contractor, N. S. (1999, April). Self-Organizing Systems Research in the Social Sciences [Keynote address]. Texas Conference on Organizations, Kerrville, TX.

Contractor, N. S. (1999, February). Communication Skills in the 21st Century [Keynote address]. McKinsey & Company Global Client Communications Practice conference, Berlin, Germany.

CONFERENCE PRESENTATIONS

Over the past 35 years, Professor Contractor has coauthored/presented over 300 conference papers, in addition to the refereed conference proceedings listed previously. These were at the annual conferences of professional associations including the Academy of Management, the ACM Web Science Conference, the American Association for the Advancement of Science (AAAS), the International Communication Association, the Interdisciplinary Network for Group Research (INGRoup), and the Society for Industrial and Organizational Psychology, among others. Below is a selection.

Lyu, L., Li, H. H., Wang, D., Le, E. Y., DeChurch, L. A., & Contractor, N. S. (2026, July 31–August 4). AI as facilitator or expert? Role orientation and human re-engagement with an AI teammate [Conference paper]. 86th Annual Meeting of the Academy of Management, Philadelphia, PA. Best Paper. <https://doi.org/10.5465/AMPROC.2026.266bp>

Chan, M., Larson, L., Gómez-Zarà, D., DeChurch, L. A., & Contractor, N. S. (2026, July 23–25). The structural foundations of congruent leadership in multiteam membership contexts [Conference presentation]. 21st Annual INGRoup Conference, Pittsburgh, PA.

Chan, M., Iyer, S., Su, I., Tu, J., Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2026, July 23–25). Organizing conversation: The temporal dynamics of turn-taking, discursive structure, and team performance [Conference presentation]. 21st Annual INGRoup Conference, Pittsburgh, PA.

Xia, J., Contractor, N. S., & Gómez-Zarà, D. (2026, July 23–25). The power of my teammates' words: Examining how conversations mediate the effects of team diversity on team outcomes [Conference presentation]. 21st Annual INGRoup Conference, Pittsburgh, PA.

Contractor, N. S. (2026, June 8). AI across communication fields: Interdisciplinary perspectives on adoption, opportunities, and evolving challenges [Panelist]. 76th Annual Conference of the International Communication Association, Cape Town, South Africa.

Contractor, N. S. (2026, May 27). The next 20 years of web science: Perspectives from the Web Science Trust network [Closing commentator]. 18th ACM Web Science Conference, Braunschweig, Germany.

Chan, M. A., DeChurch, L. A., & Contractor, N. S. (2025, July 25–29). Closing the loop: Multicommunicating in multiteam systems [Conference paper]. Annual Meeting of the Academy of Management, Copenhagen, Denmark. *Academy of Management Proceedings*, 2025(1), 19707.

DeChurch, L. A., Lungeanu, A., Chan, M. A., & Contractor, N. S. (2025, July 25–29). When two is too many and not enough: Shared leadership in Ancient Rome (32 to 491 CE) [Conference paper]. Annual Meeting of the Academy of Management, Copenhagen, Denmark. *Academy of Management Proceedings*, 2025(1), 24683. Sage Publishers Best Paper Award, Management History Division.

Carter, D. R., Lungeanu, A., Pearman, J. J., Carter, N. T., Bauer, L., Pendergraft, J. G., Landon, L. B., Shuffler, M. L., DeChurch, L. A., & Contractor, N. S. (2025, April 3). Collective attention in virtual teams: Mitigating the negative impact of communication delays on team performance [Paper presentation]. In D. A. Lee & S. R. Turner, *Navigating Change: How Dynamic Factors Influence Team Effectiveness Over Time* [Symposium], 40th Annual Conference of the Society for Industrial and Organizational Psychology, Denver, CO, Room 501/502, 9:00–10:20 a.m.

Chan, M. A. (Co-Chair & Panelist), Contractor, N. S. (Co-Chair), Begerowski, S. (Panelist), Bell, S. T. (Panelist), Cao, H. (Panelist), Kush, J. (Panelist), & Mathieu, J. E. (Panelist). (2024, April 19). Text to Teamwork: Decoding Team Dynamics with Computer-Aided Text Analysis. 39th Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL.

Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2024, April 19). Crossing boundaries in space exploration multiteam systems. [Paper in Symposium on Psychosocial Dynamics in Extreme Teams: Insights From NASA Space Analog Crews]. 39th Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL.

Carter, D. R., Pearman, J. J., Lungeanu, A., Carter, N. T., Shuffler, M. L., DeChurch, L. A., Contractor, N. S., Pendergraft, J. G., & Landon, L. B. (2024, April 19). The impact of communication delay on cognitive coordination and problem-solving performance in spaceflight multiteam systems. [Paper in Symposium on Psychosocial Dynamics in Extreme Teams: Insights From NASA Space Analog Crews]. 39th Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL.

Chan, M. A., Contractor, N. S., & DeChurch, L. A. (2024, April 19). Leadership signatures in spaceflight multiteam systems [Paper in Symposium on Psychosocial Dynamics in Extreme Teams: Insights From NASA Space Analog Crews]. 39th Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL.

DeChurch, L. A., Lungeanu, A., & Contractor, N. S. (2024, April 19). Shared leadership over time in space analog crews [Paper in Symposium on Psychosocial Dynamics in Extreme Teams: Insights From NASA Space Analog Crews]. 39th Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL.

Chan, M. A., & Contractor, N. S. (2023, August 8). The leadership signatures of effective multiteam systems [Conference paper]. 83rd Annual Meeting of the Academy of Management, Boston, MA. *Academy of Management Proceedings*, 2023(1), 10287.

Contractor, N. S. (2023, May 1). The future of web science [Panelist]. 15th ACM Web Science Conference, Austin, TX.

Contractor, N. S. (2023, April 22). Human-agent teamwork: The future of collaboration at work [Symposium contributor]. In E. Georganta & A. Ulfert (Co-Chairs), 38th Annual Conference of the Society for Industrial and Organizational Psychology, Boston, MA.

Modi, N. (Co-Chair & Panelist), Contractor, N. S. (Co-Chair), DeChurch, L. A. (Co-Chair), Furman, A. (Panelist), Jung, M. F. (Panelist), Lange, R. (Panelist), Polzer, J. T. (Panelist), & Waber, B. (Panelist). (2023, April 20). Overcoming the Data Collection Burden for Organizational Network Analysis. 38th Annual Conference of the Society for Industrial and Organizational Psychology, Boston, MA.

Modi, N., Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2022, August 5–9). Promoting cross-boundary collaborations for breakthrough discoveries [Conference paper]. 82nd Annual Meeting of the Academy of Management, Seattle, WA. *Academy of Management Proceedings*, 2022(1). <https://doi.org/10.5465/AMBPP.2022.17260abstract>

Modi, N., Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2022, May 26–30). Funding cross-boundary teams to promote breakthrough scientific discoveries: Case study in clinical and translational science [Conference paper]. 72nd Annual Conference of the International Communication Association, Paris, France.

Wu, Y. J. (Co-Chair), Contractor, N. S. (Co-Chair), Bernstein, E., DeChurch, L. A., Hecht, B., Hollenbeck, J. R., Johnson, M., Shami, N. S., & Teevan, J. (2022, April 29). The next normal for work: Reconfiguring hybrid work and teams at workplaces [Panel Discussion]. 37th Annual Conference of the Society for Industrial and Organizational Psychology, Seattle, WA.

Contractor, N. S. (2021, August 2). Unravelling the sequential structural signatures of success in human-agent teams [Conference presentation]. 81st Annual Meeting of the Academy of Management, Virtual.

Gómez-Zarà, D., DeChurch, L. A., & Contractor, N. S. (2021, August 1). Do I know you? The effects of social capital on self-assembled groups [Conference paper]. 81st Annual Meeting of the Academy of Management, Virtual. *Academy of Management Proceedings*, 2021(1), 14637.

Suarez, S., Gómez-Zarà, D., DeChurch, L. A., & Contractor, N. S. (2021, July 15–17). Let's team up! Understanding how people form teams using online platforms [Conference presentation]. 16th Annual INGRoup Conference.

Contractor, N. S. (2021, June 25). The future of the web and society [Spotlight panelist]. 13th ACM Web Science Conference, Virtual.

Gómez-Zarà, D., DeChurch, L. A., & Contractor, N. S. (2021, May). Do I know you? The effects of social capital on self-assembled groups [Conference paper]. 71st Annual Conference of the International Communication Association, Virtual. Top 4 Paper Award.

Antone, B., DeChurch, L. A., Morton, D., Bell, S. T., & Contractor, N. S. (2021, April 15). A network-based method to recommend optimal team compositions for space exploration. [Research Incubator: Methodological Challenges in Team Composition Research]. 36th Annual Conference of the Society for Industrial and Organizational Psychology, Virtual.

Contractor, N. S. (2021, April 15). The future of team composition: Robots, cyber teams and decision-support systems [Author, Alternative Session 111630]. 36th Annual Conference of the Society for Industrial and Organizational Psychology, Virtual.

Contractor, N. S. (2021, April 15). Human-agent teams will revolutionize the future of work: Implications for industrial-organizational psychology [Panelist, Panel Discussion 111976]. 36th Annual Conference of the Society for Industrial and Organizational Psychology, Virtual.

Chackoria, J. J., Nyberg, B. B., Vasquez, M., Bell, S. T., DeChurch, L. A., Contractor, N. S., Gushin, V., & Vinokhodova, A. (2021, April 15–17). Perceived similarity predicts viable relationships and team performance [Poster presentation]. 36th Annual Conference of the Society for Industrial and Organizational Psychology, Virtual.

Johnson, M., Gokhman, I., DeChurch, L. A., Bell, S. T., & Contractor, N. S. (2021, April 15–17). Talking about Mars: Team communication dynamics and decision quality in space crews [Poster presentation]. 36th Annual Conference of the Society for Industrial and Organizational Psychology, Virtual.

Harris-Watson, A. M., DeChurch, L. A., Xue, H., & Contractor, N. S. (2021, April 15–17). Your Next Coworker Could Be a Robot: What “Type” Will It Be? 36th Annual Conference of the Society for Industrial and Organizational Psychology, Virtual.

Contractor, N. S. (2021, February 11). Pairing teams for, and (re)pairing teams during, long-duration space exploration [Paper presentation]. In L. A. DeChurch (Chair), Understanding and enabling human travel to the Moon and Mars [Scientific session], AAAS Annual Meeting, Virtual.

Contractor, N. S., & DeChurch, L. A. (2020, October). Teaming in the time of COVID-19: Reconfiguration of workplace communication networks [Welcome plenary]. 15th Annual INGroup Conference, Virtual.

Contractor, N. S. (2020, August 7–11). Using AI to turbocharge organizational network analysis [Conference presentation]. Academy of Management Annual Meeting, Virtual.

Contractor, N. S. (2020, August 7–11). Unravelling the sequential structural signatures of success in human-agent teams [Conference presentation]. Academy of Management Annual Meeting, Virtual.

Contractor, N. S. (2020, July 9). Research roadmap [Spotlight panelist]. 12th ACM Web Science Conference, Virtual.

Contractor, N. S. (2020, July 8). Web science, now more than ever [Spotlight panelist]. 12th ACM Web Science Conference, Virtual.

Contractor, N. S. (2020, June 16). Unstructured data in organizational research [Panelist, Panel Discussion 0391]. SIOP Virtual.

Contractor, N. S., & Antone, B. (2020, April 24). Social network analysis of teams and organizations [Friday Seminar 4, Session 560; scheduled professional development seminar]. 35th Annual Conference of the Society for Industrial and Organizational Psychology, Austin, TX, Rooms 301–302, 3:00–6:00 p.m. The in-person conference was canceled because of COVID-19.

Antone, B., DeChurch, L. A., Bell, S. T., & Contractor, N. S. (2020, April 21–25). Re-pairing teams for long-duration space exploration [Virtual conference presentation]. Society for Industrial and Organizational Psychology 2020 Virtual Conference.

Contractor, N. S. (2020). New advances in social network science and practice in organizations [Panelist; Session 343, accepted for the 35th Annual Conference]. Society for Industrial and Organizational Psychology, Austin, TX. The in-person conference was canceled because of COVID-19.

Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2019, August). Leading teams over time through space [Poster presentation]. Academy of Management Annual Meeting, Boston, MA.

Larson, L. E., Gokhman, I., Wojcik, H., DeChurch, L. A., Bell, S. T., & Contractor, N. S. (2019, July). Collective intelligence & dynamic regulation in teams [Conference presentation]. 14th Annual INGRoup Meeting, Lisbon, Portugal.

Harris, A. M., Niler, A. A., DeChurch, L. A., Mesmer-Magnus, J. R., & Contractor, N. S. (2019, July). The experience of working in teams in space [Poster presentation]. 14th Annual INGRoup Meeting, Lisbon, Portugal.

Gómez-Zarà, D., Parra, D., Arredondo, C., & Contractor, N. S. (2019, May). The role of organizations and individuals in online collective action: A network analysis of social movement frames promoted on Twitter [Conference paper]. 69th Annual Conference of the International Communication Association, Washington, DC.

Contractor, N. S. (2019, April 4–6). Translating complexity: From science to practice [Panelist, SIOP Select, Session 157]. 34th Annual Conference 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 4–6). Examining interpersonal compatibility using fsQCA across two samples [Conference presentation]. 34th Annual Conference of the Society for Industrial and Organizational Psychology, National Harbor, MD.

Gokhman, I., DeChurch, L. A., Plummer, G. K., Bell, S. T., & Contractor, N. S. (2019, April 4–6). Team information sharing and decision making over time [Conference presentation]. 34th Annual Conference of the Society for Industrial and Organizational Psychology, National Harbor, MD.

Contractor, N. S. (2019, February). Computational social science: The next decade [Moderator]. AAAS Annual Meeting, Washington, DC. Panelists included David Lazer, Duncan Watts, Sandra González-Bailón and Alex Pentland.

Contractor, N. S., DeChurch, L. A., Kozlowski, S., & Johnson, J. (2019, February). Missions to Mars: Understanding and preparing teams for the future [Panel presentation]. AAAS Annual Meeting, Washington, DC.

Contractor, N. S. (2018, August). Some assembly required: Teaming in the 21st century [Professional Development Workshop presentation]. Academy of Management Annual Meeting, Chicago, IL.

Contractor, N. S. (2018, August). Multi-theoretical multilevel models of networks [Professional Development Workshop presentation]. Academy of Management Annual Meeting, Chicago, IL.

Mukherjee, A., Xiao, P., Wang, L., & Contractor, N. S. (2018, August). Does the opinion of the crowd predict success? [Conference paper]. Academy of Management Annual Meeting, Chicago, IL.

Ng, J., & Contractor, N. S. (2018, August). Social media & team collaboration: How the @mention feature facilitates and constrains teamwork [Conference paper]. Academy of Management Annual Meeting, Chicago, IL.

Larson, L., Gokhman, I., DeChurch, L. A., Bell, S. T., & Contractor, N. S. (2018, July 19–21). Team performance in space crews: Houston, we have a teamwork problem [Conference presentation]. 13th Annual INGRoup Conference, Bethesda, MD.

DeChurch, L. A., Wang, W., Harris, A. M., & Contractor, N. S. (2018, July 19–21). Mapping the modern science of teams [Conference presentation]. 13th Annual INGRoup Conference, Bethesda, MD.

Antone, B., Gibson, Z., Bell, S. T., Lungeanu, A., DeChurch, L. A., & Contractor, N. S. (2018, July 19–21). Crew recommender for effective work in space (CREWS) [Conference presentation]. 13th Annual INGRoup Conference, Bethesda, MD.

Lungeanu, A., Park, P., DeChurch, L. A., & Contractor, N. S. (2018, July 19–21). Deep space collaboration: Impact of latency and social networks on collaborative work [Conference presentation]. 13th Annual INGRoup Conference, Bethesda, MD.

Lungeanu, A., Twyman, M., Mesmer-Magnus, J. R., DeChurch, L. A., & Contractor, N. S. (2018, July 19–21). The emergence and development of crew shared mental models: An agent-based model [Conference presentation]. 13th Annual INGRoup Conference, Bethesda, MD.

Plummer, G., Harris, A. M., Mesmer-Magnus, J. R., DeChurch, L. A., & Contractor, N. S. (2018, July 19–21). What will motivate and challenge space crews on a journey to Mars? [Conference presentation]. 13th Annual INGRoup Conference, Bethesda, MD.

Cheung, K., DeChurch, L. A., & Contractor, N. S. (2018, July 19–21). Teams of founders versus founding teams: Unpacking the narratives of startup founding teams [Conference presentation]. 13th Annual INGroup Conference, Bethesda, MD.

Ng, J., & Contractor, N. S. (2018, July 19–21). Social media & teams: How social media enables & constrains team coordination structures [Conference presentation]. 13th Annual INGroup Conference, Bethesda, MD.

Gómez-Zarà, D., Ng, J., Twyman, M., Andreoli, S., DeChurch, L. A., & Contractor, N. S. (2018, July 19–21). Social cognition and team assembly: Competence, warmth, or embeddedness? Using team recommender systems to study users' search preferences [Conference presentation]. 13th Annual INGroup Conference, Bethesda, MD.

Mesmer-Magnus, J. R., Niler, A. A., Plummer, G., DeChurch, L. A., & Contractor, N. S. (2018, July 19–21). Antecedents of team cognition: A meta-analysis [Conference presentation]. 13th Annual INGroup Conference, Bethesda, MD.

Tanaka, K., DeChurch, L. A., & Contractor, N. S. (2018, May 24–28). Origins of omission and commission errors in perceptions of group communication networks [Conference paper]. 68th Annual Conference of the International Communication Association, Prague, Czech Republic.

Schultz, M., DeChurch, L. A., & Contractor, N. S. (2018, May). Communicating through space and over time [Conference paper]. 68th Annual Conference of the International Communication Association, Prague, Czech Republic.

Contractor, N. S. (2018, May). Why inhaling digital exhaust is taking organizational performance and the science of communication and technology to new highs [Panel presentation, "Professor as entrepreneur: Opportunities and risk"]. 68th Annual Conference of the International Communication Association, Prague, Czech Republic.

Contractor, N. S. (2018, April 19). Life in the network: From people analytics to relational analytics [Panelist, Session 262]. 33rd Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL, Room Chicago 7, 5:00–6:00 p.m. Panelists included Prasad Balkundi, Ronald Burt, Paul Leonardi, Tracey Rizzuto, and Jacqueline Ng.

Contractor, N. S., DeChurch, L. A., Bell, S. T., Olenick, J., Dishop, C., Bedwell, W., Burke, S., Antone, B., & Niler, A. A. (2018, April 19). A question of time: Multidisciplinary approaches to understanding team dynamics [IGNITE panel, Session Q]. 33rd Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL, Room Huron, 12:30–1:20 p.m.

Niler, A. A., Mesmer-Magnus, J. R., DeChurch, L. A., & Contractor, N. S. (2018, April 19–21). Working alone & together: Understanding the factors that affect work transitions [Poster presentation]. 33rd Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL.

Larson, L. E., Gómez-Zarzá, D., Jones, B. R., DeChurch, L. A., & Contractor, N. S. (2017, July). Social identity, social identification, and intergroup leadership [Conference presentation]. INGRoup Annual Meeting, St. Louis, MO.

Gómez-Zarzá, D., Parra, D., Arredondo, C., Soto, A., García, C., & Contractor, N. S. (2017, May). The role of social movement organizations in Twitter: Evidence from the Chilean student movement [Conference paper]. 67th Annual Conference of the International Communication Association, San Diego, CA.

Fu, J. S., Shumate, M., & Contractor, N. S. (2017, May). Collective innovation adoption across interorganizational systems: Organizational boundary, social networks, and decision-making status [Conference paper]. 67th Annual Conference of the International Communication Association, San Diego, CA. Top 4 Paper Award.

Contractor, N. S. (2017, April 29). More than just average: Novel approaches to measurement in teams [Panelist, Panel Discussion 245]. 32nd Annual Conference of the Society for Industrial and Organizational Psychology, Orlando, FL, N. Hemisphere E1, 8:00–9:20 a.m.

DeChurch, L. A. (Chair), Bell, S. T. (Co-Chair), & Contractor, N. S. (Co-Chair). (2017, April 28). Exploring new frontiers: Building better teams on Earth and beyond [Symposium 132]. 32nd Annual Conference of the Society for Industrial and Organizational Psychology, Orlando, FL, N. Hemisphere A3, 10:00–11:20 a.m.

Ng, J., Antone, B., Gibson, Z., Bell, S. T., DeChurch, L. A., & Contractor, N. S. (2017, April 28). Crew recommender for effective work in space: CREWS [Paper in Symposium 132, Exploring New Frontiers: Building Better Teams on Earth and Beyond]. 32nd Annual Conference of the Society for Industrial and Organizational Psychology, Orlando, FL.

Ng, J., Leonardi, P. M., DeChurch, L. A., & Contractor, N. S. (2017). Teaming at the limit: Enhancing team effectiveness with enterprise social media affordances [Conference paper]. Academy of Management Annual Meeting, Atlanta, GA.

Niler, A. A., Asencio, R., DeChurch, L. A., Uzzi, B., & Contractor, N. S. (2016, July 14–16). Gender composition affects females' experience of working in science teams [Conference presentation]. 11th Annual INGRoup Conference, Helsinki, Finland.

Asencio, R., Huang, Y., DeChurch, L. A., Contractor, N. S., & Uzzi, B. (2016, July 14–16). Across space and over time: Pushing the boundaries of virtual teams research [Symposium]. 11th Annual INGRoup Conference, Helsinki, Finland.

Twyman, M., DeChurch, L. A., Newman, D. A., & Contractor, N. S. (2016, July 14–16). The ties that form teams: Self-organization, homophily, and multiplexity [Conference presentation]. 11th Annual INGRoup Conference, Helsinki, Finland. Runner-up, Best Student Paper.

Schechter, A., Sun, Y., DeChurch, L. A., & Contractor, N. S. (2016, July 14–16). The semantic networks that underpin group interaction [Conference presentation]. 11th Annual INGRoup Conference, Helsinki, Finland.

Plummer, G., Larson, L., Mesmer-Magnus, J. R., Niler, A. A., DeChurch, L. A., & Contractor, N. S. (2016, July 14–16). When team cognition matters most: A meta-analysis [Conference presentation]. 11th Annual INGRoup Conference, Helsinki, Finland.

McDonald, J. D., Contractor, N. S., & Jones, B. R. (Co-Chairs). (2016, April 16). The many “I”s of a team: Person-centric perspectives on teamwork [Symposium 346]. 31st Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA, Room 201 A, 3:30–4:20 p.m.

Jeon, G., DeChurch, L. A., Leenders, R., & Contractor, N. S. (2016, April 16). Local environment richness and intergroup interaction influence perceptions of interdependence [Paper in Symposium 346, The Many “I”s of a Team]. 31st Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA.

Outland, N., Brown, S., Bell, S. T., Cooperstein, J., Vazquez, M., & Contractor, N. S. (2016, April 16). Predicting multi-team processes: Other-orientation composition [Paper in Symposium 346, The Many “I”s of a Team]. 31st Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA.

Contractor, N. S. (2016, April 15). IGNITE + panel discussion: Organizing that’s out of this world! [Presenter, Alternative Session 140]. 31st Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA, Room 204 A, 9:00–9:50 a.m. Co-presenters included Wendy Bedwell, Suzanne Bell, Stephen Fiore, Steve Kozlowski, Eduardo Salas, and Scott Tannenbaum.

Contractor, N. S. (Chair), & Plummer, G. K. (Co-Chair). (2016, April 14). Novel ways to understand and assess teamwork [Symposium 37]. 31st Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA, Room 206 A, 12:00–1:20 p.m.

Whalen, R., & Contractor, N. S. (2016). Measuring innovation: Citation measures of knowledge translation, integration, diffusion and scope [Conference paper]. Academy of Management Annual Meeting, Anaheim, CA. Academy of Management Proceedings, 2016(1), 16352.

Lungeanu, A., & Contractor, N. S. (2016). Assembly mechanisms of emerging interdisciplinary scientific teams and their impact on performance [Conference paper]. Academy of Management Annual Meeting, Anaheim, CA. Academy of Management Proceedings, 2016(1), 14388.

Lungeanu, A., Sullivan, S. D., & Contractor, N. S. (2015, July 23–25). Understanding the assembly of interdisciplinary teams in an emerging scientific field [Conference presentation]. 10th Annual INGRoup Conference, Pittsburgh, PA.

Twyman, M., Wax, A., DeChurch, L. A., & Contractor, N. S. (2015, July 23–25). Looking for leadership: Understanding team assembly in a web technology [Conference presentation]. 10th Annual INGRoup Conference, Pittsburgh, PA.

Whalen, R., Brot, H., Contractor, N. S., & Uzzi, B. (2015, July 23–25). Team size, boundary-spanning, and communication clarity: Readability, teams and information

diversity in patent applications [Conference presentation]. 10th Annual INGRoup Conference, Pittsburgh, PA.

Schecter, A., Mathieu, J. E., & Contractor, N. S. (2015, July 23–25). It's not just what you say—but who you say it to that matters in MTSS: Conjoint structural and semantic analyses of MTS communications [Conference presentation]. 10th Annual INGRoup Conference, Pittsburgh, PA.

DeChurch, L. A., Contractor, N. S., Shumate, M., & Hernandez, I. (2015, July 23–25). Multiteam system networks and global health: The case of Bihar, India [Conference presentation]. 10th Annual INGRoup Conference, Pittsburgh, PA.

Asencio, R., Huang, Y., DeChurch, L. A., Contractor, N. S., Sawant, A., & Murase, T. (2015, July). The MyDreamTeam builder: A recommender system for assembling & enabling effective teams [Poster presentation]. INGRoup Annual Conference, Pittsburgh, PA. Best Conference Poster Award.

Murase, T. (Chair), & Contractor, N. S. (Co-Chair). (2015, April 23). Social science and the digital revolution [Symposium/Forum 40]. 30th Annual Conference of the Society for Industrial and Organizational Psychology, Philadelphia, PA, Grand L, 12:00–1:20 p.m.

Asencio, R., Murase, T., Poole, M. S., McDonald, J., DeChurch, L. A., & Contractor, N. S. (2015, April 23). Searching for team process in behavioral sequences [Paper in Symposium/Forum 40, Social Science and the Digital Revolution]. 30th Annual Conference of the Society for Industrial and Organizational Psychology, Philadelphia, PA.

Contractor, N. S., & DeChurch, L. A. (2015, April 23). Leveraging social networks to achieve social influence at scale [Paper in Symposium/Forum 40, Social Science and the Digital Revolution]. 30th Annual Conference of the Society for Industrial and Organizational Psychology, Philadelphia, PA.

Schecter, A., & Contractor, N. S. (2015). Forming and performing: How group structure evolves in successful multiteam systems [Conference paper]. Academy of Management Annual Meeting, Vancouver, Canada. Academy of Management Proceedings, 2015(1), 11306.

Neidhardt, J., Huang, Y., & Contractor, N. S. (2015). Team vs. team: Success factors in a multiplayer online battle arena game [Conference paper]. Academy of Management Annual Meeting, Vancouver, Canada.

Contractor, N. S. (2014, May 16). Leveraging social network analysis in I-O science and practice [Panelist, Panel Discussion 193]. 29th Annual Conference of the Society for Industrial and Organizational Psychology, Honolulu, HI, Room 311, 1:30–2:20 p.m. Panelists included Jay Carson, Tracey Rizzuto, and Filip Agneessens; Leslie DeChurch served as chair and Kathryn Dalrymple as co-chair.

Contractor, N. S., DeChurch, L. A., Asencio, R., Huang, Y., Murase, T., & Sawant, A. (2014). Enabling teams to self-assemble: The MyDreamTeam Builder [Symposium paper]. SIOP Annual Conference. John Mathieu served as discussant.

DeChurch, L. A., Contractor, N. S., Asencio, R., & Carter, D. R. (2014). Big data: Motivating new theories and methods to understand teams [Symposium paper]. SIOP Annual Conference.

Wax, A., Dalrymple, K., DeChurch, L. A., Walker, B., & Contractor, N. S. (2014). Homophily, familiarity, and the self-organization of creative teams [Poster]. SIOP Annual Conference.

Schecter, A., Leenders, R. T. A. J., DeChurch, L. A., & Contractor, N. S. (2014). The signatures of success in teams & multiteam systems [Conference paper]. Academy of Management Annual Meeting, Philadelphia, PA. Academy of Management Proceedings, 2014(1), 16509.

Carter, D. R., DeChurch, L. A., Contractor, N. S., & Carson, J. B. (2013, April 11–13). A framework for understanding collective leadership through network analysis [Symposium paper]. 28th Annual Conference of the Society for Industrial and Organizational Psychology, Houston, TX.

Contractor, N. S. (2013, February 16). Understanding and enabling networks among women's groups in sustainable development [Symposium presentation]. In A tale of two networks: Connecting the African drylands, Rio de Janeiro, and women [Symposium], AAAS Annual Meeting, Boston, MA.

Sullivan, S., Pierce, C. S., Leonardi, P. M., & Contractor, N. S. (2013). Explaining idea sharing mechanisms: Linking diversity and network factors to explore creative teams [Conference paper]. Academy of Management Annual Meeting, Orlando, FL.

Contractor, N. S., DeChurch, L. A., Murase, T., & Wax, A. (2012, May 25). Origins and consequences of relational pluralism in multiteam systems [Conference paper]. Annual Conference of the International Communication Association, Phoenix, AZ.

Contractor, N. S. (2012, April 27). So you think you can analyze networks? [Panelist, Session 115]. 27th Annual Conference of the Society for Industrial and Organizational Psychology, San Diego, CA, Gregory AB, 8:30 a.m. Panelists included Prasad Balkundi, Jay Carson, and Daniel Newman.

Wax, A., DeChurch, L. A., Murase, T., & Contractor, N. S. (2012, April 26–28). Dissecting complex team processes using network analysis [Conference presentation]. 27th Annual Conference of the Society for Industrial and Organizational Psychology, San Diego, CA.

Contractor, N. S., & DeChurch, L. A. (2012, April 26–28). Leveraging digital trace technologies to understand network dynamics in teams [Conference presentation]. 27th Annual Conference of the Society for Industrial and Organizational Psychology, San Diego, CA.

Contractor, N. S. (2011, April 16). Examining multilevel organizational phenomena through social network analysis [Panelist, Session 310]. 26th Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL, Williford A, 3:30 p.m. Panelists included Prasad Balkundi and M. Scott Poole.

Contractor, N. S., Huang, M., Huang, Y., Margolin, D., Ognyanova, K., & Shen, C. (2011, April 14–16). The effects of diversity and repeat collaboration on team performance [Symposium

paper]. 26th Annual Conference of the Society for Industrial and Organizational Psychology, Chicago, IL.

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 [Conference paper]. Academy of Management Annual Conference, Montréal, Canada. Carolyn Dexter Paper Award Finalist.

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 [Conference paper]. 60th Annual Conference of the International Communication Association, Singapore. Top 3 Paper Award.

Wang, J., & Contractor, N. S. (2009, July). Knowledge seeking and provision in work teams across multiple knowledge areas: A network formulation to test and extend transactive memory theory [Conference presentation]. Fourth Annual INGRoup Conference, Colorado Springs, CO. Top Paper Award.

Contractor, N. S. (2009, March 20). Leveraging web science to understand and enable society [Keynote address]. First Web Science Conference: Society On-Line, Athens, Greece.

Contractor, N. S. (2009, February 13). Digital traces: An exploratorium for understanding and enabling social networks [Paper presentation]. In Interdisciplinary approaches to the study of large-scale human networks [Symposium], AAAS Annual Meeting, Chicago, IL.

Contractor, N. S., 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 [Conference paper]. International Communication Association Annual Convention, Acapulco, Mexico. Top 3 Paper Award.

Contractor, N. S., Whitbred, R., Fonti, F., Hyatt, A., Jones, P., & O'Keefe, B. J. (1998, July). Self-organizing communication networks in organizations: Validation of a computational model using exogenous and endogenous theoretical mechanisms [Conference paper]. International Communication Association Annual Conference, Jerusalem, Israel. Top 3 Paper Award.

Hyatt, A., Contractor, N. S., & Jones, P. M. (1997, May). Computational organizational network modeling: Strategies and an example [Conference paper]. International Communication Association Annual Conference, Montréal, Canada. Top 3 Paper Award.

Eisenberg, E. M., Contractor, N. S., & Monge, P. R. (1988). Semantic networks in organizations [Conference paper]. Annual Conference of the International Communication Association, New Orleans, LA. Top 3 Paper Award.

TEACHING

Professor Contractor has taught over 150 undergraduate, graduate, executive/professional and online courses on organizational communication, communication technologies in the

workplace, knowledge networks, social network analysis, globalization, computational social science, human-AI collaboration for decision making, and AI methods in the social sciences. He has co-taught over a dozen “virtual” courses with faculty and students at multiple universities using videoconferencing.

PROFESSIONAL SERVICE

Editorial Activities

Associate Editor for Social/Political Sciences, *PNAS Nexus*, National Academy of Sciences, 2021-2025.

Editor for Communication, Management, and Computational Social Science, *Network Science*, 2012-2025.

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

Professor Contractor has served as a reviewer for dozens of interdisciplinary and social science journals, conferences, book proposals and grant proposals.

Video Lectures

National Communication Association (November 18, 2011). Grant seeking 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, Institute on AI Methods for Social Scientists (AIMS), Center for Advanced Study in the Behavioral Sciences, Stanford University, 2026, with Lara Tiedens. Inaugural institute: July 26-31, 2026, Stanford, CA.

Member, Steering Committee, WebSciX 2026, November 26–28, 2026, Bengaluru, India.

Co-organizer, 11th International Workshop on Network Theory: Networks in Translation: Moving Network Research into Social Practice, March 2024, University of Southern California, Los Angeles, CA.

General Chair, 15th ACM Web Science Conference, April 30–May 1, 2023, Austin, TX.

Conference Program Chair, 72nd Annual Conference of the International Communication Association, May 26–30, 2022, Paris, France, with 11 regional hubs worldwide.

Keynote Session Chair, “Analysis of Communication and Collaborative Work in Software Engineering,” ICA Regional Conference on Computational Communication Research in Central and Eastern Europe, June 28, 2022, Helsinki, Finland.

Conference Chair, Pre-AOM Conference on AI and Digital Transformation, in partnership with the Management Consulting and Organizational Communication & Information Systems divisions of the Academy of Management, July 27–29, 2021, Virtual.

Keynote Session Chair, Daniel J. Weitzner, “Why is our society having such a hard time governing the new digital computing infrastructure?”, 13th ACM Web Science Conference, June 24, 2021, Virtual.

Keynote Session Chair, Deen Freelon, “The Post-API Age Reconsidered: Web Science in the '20s and Beyond,” 13th ACM Web Science Conference, June 25, 2021, Virtual.

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

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.

Conference Co-Chair, 4th International Conference on Computational Social Science (IC2S2), July 13–15, 2018, 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.

General Chair and member of the Organizing Committee, 3rd International Conference on Computational Social Science (IC2S2), July 10–13, 2017, Cologne, Germany.

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.

Conference Co-Chair and Program Chair, 2nd International Conference on Computational Social Science (IC2S2), June 23–26, 2016, Evanston, IL.

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 27, 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.

General 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, WA

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, Zaragosa, Spain.

Member, Organizing Committee, 2003-2007, International Symposium on Understanding Complex Systems, 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)

Society for Industry & Organizational Psychology (SIOP)

Advisory Board Appointments

Member, International Advisory Board, National University of Singapore (NUS) Centre for Computational Social Science and Humanities (CSSH), 2025-present.

Member, Steering Committee, Digital Humanism Initiative, 2024-present

Member, Advisory Board, Journal of Quantitative Description: Digital Media, 2020- present

Member, External Advisory, Indiana University Network Science Institute, 2014-2024.

Member, External Advisory Committee, European Union FP7 Network of Excellence in Internet Science –EINS (<http://www.internet-science.eu/>), 2014- present

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 - 2020

Member, External Advisory, ACTNext initiative at ACT, 2016-2020.

Professional Association Committee Appointments & Elected Offices

Executive Director, Web Science Trust, 2025-present

President, International Communication Association (ICA), 2022-2023

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, Board of Directors, Society of Scholars of Zoroastrianism, 2019-present.

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, New National Communication Association (NCA) Center on Communication Excellence (Center Taskforce), 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

External University Appointments

Member, External Review Committee, Department of Management Science & Engineering, Stanford University, 2023.

Honored Professor, School of Business, Fudan University, Shanghai, China, 2010-2020.

Distinguished Visiting Scholar, 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, Northwestern Data Science & Artificial Intelligence Steering Committee, 2024-2025

Faculty Director, Masters of Science in Leadership for the Creative Enterprises (MSLCE), School of Communication, 2023-2024

Faculty Senate, Representative for the Departments of Management & Organizations and Industrial Engineering & Management Sciences, 2021-present

Member, Northwestern IRB Panel E to review Social Behavioral Research, 2020-2025

Faculty, Northwestern University Transportation Center, 2020-present

Member, Communication Studies, Graduate Curriculum Committee, Multiple years

Member, Media, Technology, and Society PhD Admissions Committee, Multiple years

Member, Program Committee, Master's of Science in Communication, Multiple years

Client Project Challenge Adviser, Department of Industrial Engineering & Management Sciences, 2019-present

Faculty Associate, Institute for Policy Research, 2019-present

Member, Faculty Advisory Board, Master of Science in Communication Program, Northwestern University, 2019-2023

Member, Faculty Search Committee, Communication Studies, Northwestern, Multiple years

Member, McCormick School of Engineering Tenure & Promotion committee, 2019-2024

Member, Northwestern University Graduate Program Review Committee, 2019-2020

Mentor for Junior Faculty, Searle Fellows Program, 2019-2024

Member, Doctoral Admissions Committee in Management & Organizations (MORS), Multiple years

Member, Doctoral Admissions Committee in Industrial, Engineering, and Management Sciences (IEMS), 2018-present

Member, Promotion & Tenure Committee, Kellogg School of Management, 2018-2020

Member, Design Research Cluster, Segal Design Institute, Northwestern Engineering, and The Graduate School, 2018-present

Member, Advisory Board, Northwestern Institute on Complex Systems (NICO), 2018-2023

Member, Faculty Senate Research Affairs Committee, 2016-present

Member, Faculty Senate, 2014-present

Core Faculty, Northwestern Institute on Complex Systems (NICO), 2007-present

PUBLIC SERVICE

Consulting Activities

Professor Contractor has consulted with over 30 for-profit, non-profit and government organizations.

Selected Media Coverage

Professor Contractor's research has received extensive national and international media coverage across print, radio, podcasts, television, and digital outlets. Selected representative coverage is listed below.

Kellogg Insight. (2025, December 1). Houston, We Have a Solution.

Kellogg Insight. (2025, June 1). The Upside of Recruiting Your Rivals.

The Economist. (2021, December 18). How to Prevent Conflict on the Way to Mars.

Science Magazine Podcast. (2021, March 25). Social Insects as Models for Aging, and Crew Conflict on Long Space Missions.

IndustryWeek. (2020, August 4). What Astronauts Can Teach Us about Working Remotely.

Kellogg Insight. (2019, June 3). For Teams, What Matters More: Raw Talent or a History of Success Together?

WBEZ 91.5 Chicago. (2019, May 15). Who Can Handle Trip To Mars? Northwestern Helps NASA Predict Strains On Astronauts.

The Wall Street Journal. (2019, February). The Key to Building a Successful Team.

The Economist. (2019, February 23). The Problems of Flying to Mars: Astronauts Will Have to Worry about Space Radiation, and Also Each Other.

Space.com. (2019, February 23). Astronauts Struggle with Finishing Tasks on Mock Space Missions.

CBC Radio. (2019, February 22). "It's like a hall of mirrors": In a spacecraft, some personalities work better than others.

ScienceDaily. (2018, December 4). In Team Sports, Chemistry Matters.

Phys.org. (2018, December 4). Sports analytics analysis reveals that past shared success among team members improves odds of future wins.

Communications of the ACM. Wright, A. (2011, May). Web Science Meets Network Science, 54(5), 23.

Bloomberg Businessweek. Vance, A. (2011, April 28). Yammer, Chatter, Hot Water.

MIT Technology Review. Cox, L. (2011, February 24). Spotting Influencers in Big Companies.

CBS News MoneyWatch. Silverthorne, S. (2010, April 13). Is Your Network Working for You? A Simple Test.

Scientific American. (2009, March 4). Online Games as Study Tool.

The Guardian. (2009, February 18). Online game data, offline results: EverQuest 2 server logs offer insight into offline human behaviour.

Los Angeles Times. Roan, S. (2009, February 16). Are virtual-game players more depressed?

Ars Technica. (2009, February). Science gleans 60TB of behavior data from EverQuest 2 logs.

On the Media, WNYC/NPR. Gladstone, B., & Garfield, B. (2009). Game Theory.

Nature. Gewin, V. (2008, February 20). The New Networking Nexus, 451, 1024–1025.

To the Point, KCRW/National Public Radio. Nyad, D. (2006). MySpace and Growth in Online Social Networking.

The Chronicle of Higher Education. Young, J. R. (1998, July 24). Using Computer Models to Study the Complexities of Human Society.

The Chronicle of Higher Education. (1993, June 9). White House Gets Advice on Electronic Communications.