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[Professor Contractor has delivered over 250 keynotes and distinguished lectures. For details see here.](#)

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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 Communication Studies, Industrial Engineering and Management Sciences, and Management and Organizations, and Computer Science (By courtesy) Northwestern University
2001-2007	Professor of Speech Communication University of Illinois at Urbana-Champaign
1993-2001	Associate Professor of Speech Communication University of Illinois at Urbana-Champaign
1987-1993	Assistant Professor of Speech Communication University of Illinois at Urbana-Champaign

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, 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 (2022), Group Communication Division, National Communication Association

Randall Harrison Outstanding Article Award (2022), Information Systems Division, International Communication Association

Article of the Year Award (2021), Honorable Mention, Organizational Communication Division, National Communication Association

Bill Eadie Distinguished Scholarly Article Award (2021), Applied Communication Division, National Communication Association

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 structurational 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., Lungeanu, 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., Shaikh, A., Contractor, N., Courtney, P., Lee, J., Morgan, G., Tatalovich, Z., Thomas, C., & L. McGuinness, D. L. (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., Ahmed, M. A., Williams, D., Srivastava, J., & Contractor, N. (2011, June). *Sic transit gloria mundi virtuali? Promise and peril in the computational social science of clandestine organizing*, 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 Schechter, 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. [doi:10.1561/18000000017](https://doi.org/10.1561/18000000017)

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

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

Refereed Journal Articles

2025

Mattarelli, E., Schechter, 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.

Zhu, M., Liu, L., & Contractor, N. (2025). The evolving influence of social networks on collaboration technology use during telework transitions. *Information Technology & People*, 1-25.

Baratta, L.R., Xia, L., Lew, D., Eiden, E., Wu, Y.J., Contractor, N., Lambert, B.L., et al. (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*.

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.

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.

2024

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

Gomez-Zara, D., Kam, V., Chiang, C., DeChurch, L., & Contractor, N. (2024). Augmenting team diversity and performance by enabling agency and fairness criteria in recommendation algorithms. *arXiv preprint arXiv:2410.00346*.

Contractor, N.S. (2024). Collaborative research: HNDS-R: Advancing diverse viable effective networked teams (ADVENT). *NSF Award*, 23(2341432), 41432.

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](https://doi.org/10.1111/deci.12578). *Decision Sciences*, 55(2), 176-190. <https://doi.org/10.1111/deci.12578>

Zhu, M., Su, R., Liu, L., & Contractor, N. (2024). Communicate or not: Exploring the different effects of instrumental and expressive networks on thriving at work. *Journal of Management & Organization*, 1-18.

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.

Gomez-Zara, D., Schechter, A., Grisold, T., Berente, N., Contractor, N., Evans, J., et al. (2024). Computational social science in management. *Working paper*.

Schechter, A., & Contractor, N. (2024). Relational event models. *Social Network Analysis*, 513.

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.

Schechter, A., Hohenstein, J., Larson, L., Harris, A., Hou, T. Y., Lee, W. Y., et al. (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>

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.

2022

Lungeanu, A., Whalen, R., Wu, Y. J., DeChurch, L. A., & Contractor, N. S. (2022). [Diversity, networks, and innovation: A text analytic approach to measuring expertise diversity](#). *Network Science*, 11(1), 36-64.

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>

Schechter, 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., et al. (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.

Lungeanu, A., Mesmer-Magnus, J.R., Niler, A.A., DeChurch, L.A., & Contractor, N.S. (2022). Organizing for Mars: A task management perspective on work within spaceflight multiteam systems. *Human Factors*, 00187208221129939.

Hohenstein, J., Larson, L. E., Hou, Y. T.-Y., Harris, A. M., Schechter, A., Dechurch, L., Contractor, N., & Jung, M. F. (2022). [Vero: A method for remotely studying human-ai collaboration](#). *Proceedings of the Annual Hawaii International Conference on System Sciences*. <https://doi.org/10.24251/hicss.2022.030>

2021

Rager, S., Leung, A., Pinegar, S., Mangels, J., Poole, M. S., & Contractor, N. (2021). [Groups, governance, and greed: The Access World Model](#). *Computational and Mathematical Organization Theory*. <https://doi.org/10.1007/s10588-021-09352-x>

Das, A., Gómez-Zarà, D., & Contractor, N. (2021). [Forming diverse teams based on members' social networks: A genetic algorithm approach](#). *Studies in Computational Intelligence*, 346-357. https://doi.org/10.1007/978-3-030-65351-4_28

Kaven, E., Kaven, I., Gómez-Zar4, D., DeChurch, L., & Contractor, N. (2021). [Assessing how team task influences team assembly through network analysis](https://doi.org/10.1007/978-3-030-65351-4_26). *Studies in Computational Intelligence*, 322-334. https://doi.org/10.1007/978-3-030-65351-4_26

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.

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](https://doi.org/10.1037/apl0000969). *Journal of Applied Psychology*, 106(10), 1483-1492. <https://doi.org/10.1037/apl0000969>

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.

Wagner, C., Strohmaier, M., Olteanu, A., Kiciman, E., Contractor, N., & Eliassi-Rad, T. (2021). [Measuring algorithmically infused societies](https://doi.org/10.1038/s41586-021-03666-1). *Nature* (2021). <https://doi.org/10.1038/s41586-021-03666-1>

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](https://doi.org/10.1016/j.socnet.2021.02.007). *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](https://doi.org/10.1016/j.socnet.2021.02.003). *Social Networks*, 66, 114-124. <https://doi.org/10.1016/j.socnet.2021.02.003>

Schechter, A., Nohadani, O., & Contractor, N. (2021). [A robust inference method for decision making in networks](#). *Management Information Systems Quarterly*.

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](https://doi.org/10.1007/s11067-021-09526-9). *Networks and Spatial Economics*. <https://doi.org/10.1007/s11067-021-09526-9>

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](https://doi.org/10.1177/2041386620972112). *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>

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- 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

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

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

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

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

VIVO Recommender: Recommending teams for scientific research. SONIC Research Group, Northwestern University, 2012-2017

Semantic Recommender: Semantic Web Cyberinfrastructure for Inquiring Knowledge Networks on the Web. SONIC Research Group, Northwestern University, 2011-2017

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

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

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

CURRENTLY FUNDED RESEARCH

National Science Foundation: 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)

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

National Aeronautical & 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

PREVIOUSLY FUNDED RESEARCH

National Aeronautics & 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-INKNOW 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.

KEYNOTE ADDRESSES AND DISTINGUISHED LECTURES

Professor Contractor has delivered over 250 keynotes and distinguished lectures. For details see [here](#).

CONFERENCE PRESENTATIONS

Professor Contractor has presented over 300 conference papers including over 50 papers over the past 35 years at the annual conferences of the International Communication Association. For details see [here](#).

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, and computational social science. He has co-taught over a dozen “virtual” courses with faculty and students at multiple universities using videoconferencing. For details see [here](#).

PROFESSIONAL SERVICE

Editorial Activities

Associate Editor for Social/Political Sciences, *PNAS Nexus*, National Academy of Sciences, 2021-2024.

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

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

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

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

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

Editorial board memberships

Computational Communication Research, 2020- present

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

Journal of Computer Mediated Communication, 2018-present

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

The Review of Communication, 1999-2012

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

Electronic Journal for Computer Mediated Communication, 1994-2009

Small Group Research, 2008-2009

Journal of Applied Communication Research, 1996-1997, 2007

Organization Science, 2000-2004

Management Communication Quarterly, 1992-1998

Handbook for Small Group Communication, 1996-1997

Ad hoc manuscript reviewer

Professor Contractor has served as a reviewer for dozens of interdisciplinary and social science journals, conferences, book proposals and grant proposals. For details see [here](#).

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, 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Co-chair (with Brian Uzzi), Net Sci 2012 and ACM Web Science 2012, Evanston, IL.

Associate Chair, February 11-15, 2012, The 2012 ACM Conference on Computer Supported Cooperative Work (CSCW 2012), Seattle, W.A.

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

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

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

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

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

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

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

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

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

Member, Program Committee, 2009, 2010, WWW Conference

Member, Organizing Committee, 2010 Extended Semantic Web Conference

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

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

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

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

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

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

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

Co-organizer (with Brad Hesse, National Cancer Institute), May 2006, Symposium on Cyberinfrastructure for Public Health, 2006 NSF Digital Government Conference, San Diego, CA.

Co-organizer (with David Lazer & Ines Mergel, Kennedy School of Government, Harvard University), May 2006, 2007, Workshop on Application of Social Network Analysis in Digital Government. NSF Digital Government Conference, San Diego, CA.

Co-organizer (with Katy Borner), October 2006, NSF Workshop on Social Networks and Cyberinfrastructure (SNAC). National Center for Supercomputing Applications, Urbana, IL.

Co-organizer (with David Lazer & Ines Mergel, Kennedy School of Government, Harvard University), 2005, Workshop on Application of Social Network Analysis in Digital Government. NSF Digital Government meeting, Atlanta, GA.

Co-organizer (with Scott Leischow, National Cancer Institute), May 16, 2005, Symposium and “Birds of a Feather” Session on Cyberinfrastructure for Public Health. NSF Digital Government Meeting, Atlanta, GA.

Member, Program Committee, August 22-26, 2005, eGov 2005 Conference, Copenhagen, Denmark.

Member, Program Committee, August 30-September 3, 2004, eGov 2004 Conference, Zaragoza, Spain.

Member, Organizing Committee, 2003-2007, International Symposium on Understanding Complex Systems, 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 Descriptive Description: Digital Media, 2021-2022

President-Elect, International Communication Association (ICA), 2020/2021

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

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

Member, Board of Trustees, Web Science Trust, 2011-present

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

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

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

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

Faculty Senate, Representative for Management & Organizations, 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. For details see [here](#).

Selected Publications for Media and Popular Press

Professor Contractor's research has received media coverage in over 60 national and international venues including print, radio, TV and social media. For details see [here](#).