Kathleen Mary Carley

Software and Societal Systems.¹ tel: (412) 268-6016 Carnegie Mellon University fax: (412) 268-1744

Pittsburgh, PA 15213 email: <u>kathleen.carley@cs.cmu.edu</u>

https://www.cmu.edu/casos-center/people/carley.html

EDUCATION

4/2019 H.D. University of Zurich. Business, Economics, and Informatics
9/1978-6/1984 Ph.D. Harvard University. Sociology Thesis: Consensus Construction
9/1974-6/1978 S.B. Massachusetts Institute of Technology. Political Science
9/1974-6/1978 S.B. Massachusetts Institute of Technology. Economics

PROFESSIONAL EXPERIENCE

REGULAR APPOINTMENTS

8/2002 Professor of Computation, Organization and Society; Appointment in Institute for Software Research, SCS; Courtesy appointments in SDS, Heinz, GSIA and EPP; Carnegie Mellon University. Pittsburgh, PA 15213

 9/1998-7/2002 Professor of Sociology, Organizations, and IT; Appointments in SDS, Heinz, GSIA and EPP; Carnegie Mellon University. Pittsburgh, PA 15213
 9/1990-8/1998 Associate Professor of Sociology and Organizations; Carnegie Mellon University. Pittsburgh, PA 15213
 9/1984-8/1990 Assistant Professor of Sociology and Information Systems; Carnegie Mellon University. Pittsburgh, PA 15213

OTHER APPOINTMENTS AND POSITIONS

12/2022-	DTAIS Advisory Board, GWU, Washington DC
1/2022-12/2023	Digital Platform and Societal Harms Tech Forum – steering committee
2/2021-12/2024	Scientific Advisory Board: Geospatial Science & Human Security Div. at Oak Ridge National Lab
7/2020-2/2023	Scientific Advisory Board of IP Paris-HEC on AI, Business and Society
7/2020-11/2020	Scientific Review Board ETH Zurich Switzerland
1/2020-1/2025	NSF Advanced Cyber Infrastructure Training in Policy Informatics Advisory board
7/2019-	Center Director, Center for Informed Democracy and Social Cybersecurity (IDeaS)
7/2018-	Co-director Social Cybersecurity Working Group
9/1998-	Center Director, Center for Computational Analysis of Social and Organizational Systems.
2010-2011	Scientific Advisory Board, Aptima
8/1999-8/2000	Institute for Complex Engineered Systems (ICES) – CASOS Lab Director
3/1999-8/1999	Institute for Complex Engineered Systems (ICES) – CASOS Thrust Leader
1/1997	Invited Professor, Universite' Leonardo DaVinci
6/1992-9/1992	Research Faculty, Learning Research & Development Center (LRDC), U. of Pitt. Pittsburgh, PA.
6/1991-9/1991	Research Faculty, LRDC, U. of Pittsburgh. Pittsburgh, PA.
6/1990-9/1990	Research Faculty, LRDC, U. of Pittsburgh. Pittsburgh, PA.
6/1984-8/1984	RA for Prof. Bob Eccles, Harvard Business School. Cambridge, MA.
12/1982-8/1984	Computer and Statistical Consultant, Harvard University. Cambridge, MA.
1/1982-6/1982	Project Director Cambridge-Sommerville Sociology Internship Program,
	Harvard University. Sociology. Cambridge, MA.
9/1979-1/1982	TA for Sociology 156: (Intro. Statistics), Harvard University. Cambridge, MA.
6/1980-10/1984	Software Development and System Management for Prof. James Davis,
	Harvard University. Sociology. Cambridge, MA.
2/1979-5/1981	Instructor in Applied Mathematics, Lowell Institute. Cambridge, MA.
6/1978-8/1978	Research Assistant Prof. Hayward Alker, MIT: Political Science. Cambridge, MA.

Toward the end of 2007 the Institute for Software Research International, a department in the School of Computer Science at Carnegie Mellon University changed its name to Institute for Software Research. In September 2022 the Institute for Software Research was changed to Software and Societal Systems – S3D.

2/1977-5/1978 Research Assistant Bloomfield and Alker, MIT: Political Science. Cambridge, MA. 6/1975-10/1976 Research Assistant Prof. Bloomfield, MIT: Political Science. Cambridge, MA.

INTERESTS

Kathleen M. Carley's research involves applying computational social science, cognitive science, organization science, dynamic network analysis, social network analysis, machine learning, data analytics and text analytics to complex social and organizational problems such as social cybersecurity, disinformation, disease contagion, disaster response, and terrorism. She develops social and dynamic network analytical and visual techniques, agent-based models, network-based text mining and machine learning tools, all predicated on blending socio-cognitive theory with advanced computation. She and members of her center have developed novel tools and technologies for analyzing large-scale geo-centric dynamic-networks and various multi-agent simulation systems. These tools include ORA which is a statistical and graphical toolkit for analyzing and visualizing multi-dimensional networks, social networks, dynamic-networks, geo-spatial networks with special features for social media analytics; NetMapper and AutoMap which are text-mining systems for extracting semantic networks from texts and then cross-classifying them using an organizational ontology into the underlying social, knowledge, resource, and task networks, as well as sentiment. Her simulation models meld agent-based technology with network dynamics and empirical data. For example, BioWar is a city-scale dynamic-network agent-based model for understanding the spread of disease and illness due to natural epidemics, chemical spills and weaponized biological attacks; and Construct is an agent-based dynamic-network model for assessing network evolution and the diffusion of information and beliefs under diverse socio-demographic and media environments. Dr. Carley is the director of the center for Computational Analysis of Social and Organizational Systems (CASOS) and the center for Informed Democracy and Social-Cybersecurity (IDeaS). She is the founding co-editor of the journal Computational Organization Theory and has co-edited several books in the computational organizations and dynamic network area. She has led multiple applied projects, e.g., identifying disinformation aimed at at-risk populations in SW PA that was used by the public health groups, OMEN a train as you play system for recognizing, detecting and learning how to respond to online harms, and her work on insider threat. Many of the algorithms and tools she has led the development of are now in use in corporations and the military. Her work has led to changes in doctrine in the US military, to new courses at various universities, and to new funding priorities in US research sponsors.

HONORS AND PROFESSIONAL RECOGNITION

2024	Lynnette Hui Xian Ng, Dawn Robertson, and Kathleen M. Carley, 2022, "Stabilizing a Supervised Bot Detection Algorithm: How Much Data is Needed for Consistent Predictions?" Online Social
	Networks and Media, 2024 Best Paper Award from Journal
2024	Lynnette Ng and Kathleen M. Carley, 2024, "Online communities: are you chatting with bots?" In
	Grefenstette Center's ethics symposium on "How is AI Transforming our communities?" best
	poster award
2024	Samantha C. Phillips, Lynnette Hui Xian Ng, Wenqi Zhou, and Kathleen M. Carley, 2024, "Moral
	and emotional influences on attitude stability towards COVID-19 vaccines on social media." In
	proceedings of the International Conference on Social Computing, Behavioral-Cultural Modeling
	& Prediction and Behavior Representation in Modeling and Simulation, SBP-BRiMS 2024, Eds
	Robert Thomson, Aravind Hariharan, Scott Renshaw, Samer Al-khateeb, Annetta Burger, Patrick
	Park & Aryn Pike (Eds) September, 2024, Pittsburgh PA. DOI:
2024	https://doi.org/10.48550/arXiv.2407.19406 Best Paper Award Runner-Up
2024	Jeongkeun Shin, L. Richard Carley, and Kathleen M. Carley, 2024-forthcoming "Simulation-
	Based Study on False Alarms in Intrusion Detection Systems for Organizations Facing Dual
	Phishing and DoS Attacks." In 2024 Annual Modeling and Simulation Conference (ANNSIM),
2022	Best Paper Runner Up Cybertrack
2023	Evan M. Williams and Kathleen M. Carley, 2023, "Agent-Based Moral Interaction Simulations in
2022	Imbalanced Polarized Settings." SBP-BRiMS Conference (September 2023), Best Student Paper
2023	Nobel Symposium on Social Networks Panelist
2023	Asia-Pacific Artificial Intelligence Association Fellow
2022-2023	Conference Chair, SBP-BRiMS 2023
2022	Charity Jacobs and Kathleen M. Carley, 2022 "#WhoDefinesDemocracy: Analysis on a 2021
2022	Chinese Messaging Campaign." SBP-BRiMS Conference (September 2022), Best Paper Award
2022	Iuliia Alieva and Kathleen M. Carley, 2022, "How Disinformation Operations against Russian

K.M. Carley

	Opposition Leader Alexei Navalny Influence International Community," 3rd place and top papr
	presentation at AEJMC
2021-2022	Conference Chair, SBP-BRiMS 2022
2021	Richards Award, Exceptional contribution to network science tools, INSNA 2021
2020-2021	Conference Chair, SBP-BRiMS 2021
2020	Catherine King, Daniele Bellutta, and Kathleen M. Carley, 2020, "Lying About Lying on Social
	Media: A Case Study of the 2019 Canadian Elections," In Proceedings of the International
	Conference SBP-BRiMS 2020, Halil Bisgin, Ayaz Hyder, Chris Dancy, and Robert Thomson (Eds.) Washington DC, October 2020, Springer. Best Paper Award
2019-2020	Conference Chair, SBP-BRiMS 2020
2019-2020	Honorary Doctorate, "Doktor ehrenhalber" Faculty of Business, Economics and Informatics at
2019	University of Zurich, Zurich Switzerland
2019	Computational Social Science – Quo Vadis? An Interdisciplinary Symposium Honoring Kathleen
2017	M. Carley, University of Zurich, Zurich Switzerland
2019	Global Development Lab Scientific Advisory Panel
2019	Iain Cruickshank and Kathleen M. Carley, 2019, Detecting malware communities using socio-
2019	cultural cognitive mapping" SBP-BRiMS conference paper. Best Late breaking paper.
2018	Listed in 50+ Women to follow in computational social science – Sage Ocean,
	https://ocean.sagepub.com/blog/2018/10/8/womentofollow-in-computational-social-science
2018	Listed in 39 Women doing amazing research in computational social science – Sage Ocean,
	available at https://ocean.sagepub.com/blog/2018/9/28/39-women-doing-amazing-research-in-
	computational-social-science
2018-2019	Conference Chair, SBP-BRiMS 2019
2018	David M. Beskow and Kathleen M. Carley, 2018, "Using Random String Classification to Filter
	and Annotate Automated Accounts," In Proceedings of the International Conference SBP-BRiMS
	2018, Halil Bisgin, Ayaz Hyder, Chris Dancy, and Robert Thomson (Eds.) July 10-13, 2018,
	Washington DC, Springer. Best Student Paper
2018	Member of the NAS/NRC ARO Review Committee
4/2018	United States Geospatial Intelligence Foundation Academic Award, GEOINT 2018
10/27/2017	NSC working group
10/25/2017	Briefing to the NSC - Present and Future Influences of Artificial Intelligence and Cyber Warfare
2017-2018	Conference Chair, SBP-BRiMS 2018
2017-2019	Member of the NAS/NRC Committee on Decadal Survey of the Social Sciences
2016-2017	Present and Future Influences of Artificial Intelligence and Cyber Warfare Conference Chair, SBP-BRiMS 2017
2016-2017	Conference Chair, SBP-BRiMS 2017 Conference Chair, SBP-BRiMS 2016
2015-2016	Member of the NAS/NRC Committee on Models of the World for the National Geospatial-
2013-2010	Intelligence Agency
2014	Allen Newell Award for Research Excellence - "For the creation of empirical methods to
2014	rigorously establish the impact of human communication on software quality."
2014-2018	Member of the NAS/NRC ARL Review Panel
2013	IEEE Fellow
2012-2013	Member of the NAS/NRC Committee on Digital Math Library
2012-2014	DHS Homeland Security Science and Technology Advisory Committee, HSSTAC, SGE
2012	Kenneth Joseph, Chun How Tan, and Kathleen M. Carley, 2012, "Beyond 'Local', 'Categories' and
	'Friends': Clustering foursquare Users Using Latent 'Topics'" 4th International Workshop on
	Location-Based Social Networks (LBSN 2012) at UBICOM Sept 8, 2012 - Pittsburgh, PA. Best
	Paper Award
2011	Senior Member IEEE
2011	Kathleen M. Carley, Simmel Award, International Network for Social Network Analysis,
	February 2011, St. Petersburg, FL.
2011	Geoffrey P. Morgan and Kathleen M. Carley, "Exploring the impact of a stochastic hiring function
	in dynamic organizations," In proceedings of the Behavioral Representation in Modeling and
	Simulation (BRIMS) Conference, Sundance, UT, March 23, 2011, Pp. 106-113. Best Student
2010 2012	Paper award. Marshan of the NAS/NBC Committee on NCA Worldgree Assessment
2010-2013	Member of the NAS/NRC Committee on NGA Workforce Assessment

2010	Patrick Wagstrom, James D. Herbsleb and Kathleen M. Carley, "Communication, Team
	Performance and the Individual: Bridging Technical Dependencies," Academy of Management
	Conference, Montreal, Canada, August 2010. Best Paper Award.
2009-2013	Member of the NAS/NRC Committee on Large Scale Data Analysis
2009	Terrill L. Frantz and Kathleen M. Carley, "Toward A Confidence Estimate for The Most-Central-
	Actor Finding," In proceedings of the Academy of Management Annual Conference, Chicago, IL,
2000	August 7-11, 2011. Sage Publications/RM division Best Student Paper.
2008	Marcelo Cataldo, Jim D. Herbsleb and Kathleen M. Carley, "Socio-Technical Congruence: A
	Framework for Assessing the Impact of Technical and Work Dependencies on Software
	Development Productivity," In Proceedings of the Second ACM-IEEE International Symposium on Empirical Software Engineering and Measurement, New York, NY: ACM, Pp. 2-11. ACM
	Distinguished Paper Award.
2008	George B. Davis, Jamie Olson, and Kathleen M. Carley, "Unsupervised Plan Detection with
2000	Factor Graphs," In proceedings of Sensor-KDD, Las Vegas, NV, August 24-27, 2008. Best Paper
	Award.
2007-2008	Task Force Member for Defense Science Board: Human Behavioral Modeling
2007-2008	Member of the GIST Panel on Adversary Modeling
2006-2008	Member of the NAS/NRC Committee on Behavioral Modeling and Simulation: From Individuals
	to Societies
2007	Jana Diesner and Kathleen M. Carley, "Conditional Random Fields for Entity Extraction and
	Ontological Text Coding," In proceedings of the North American Association for Computational
	Social and Organizational Science (NAACSOS) Conference, Atlanta, GA, July 2007. Best student
• • • • •	paper award.
2006	Member of the NAS/NRC Committee on Modeling Community Containment for Pandemic
2006	Influenza: A Letter Report
2006	Marcelo Cataldo, Patrick Wagstrom, James Herbsleb and Kathleen M. Carley, "Identification of Coordination Requirements: Implications for the design of collaboration and awareness tools,"
	Computer Supported Cooperative Work, Banff, Alberta, Canada, Pp. 353-362. Best Paper CSCW
	2006, Awarded by ACM SIGCHI.
2005-2006	Member of the NAS/NRC Committee on Modeling and Simulation for Defense Transformation
2005-2006	Member of the NAS/NRC Committee on Defense Modeling and Simulation
2002-2004	President of the North American Association of Computational Social and Organizational Systems
2001	Lifetime Achievement Award from the Sociology and Computers Section of the ASA
1999-2000	President for ASA Mathematical Sociology Section
1998-1999	President Elect for ASA Mathematical Sociology Section
1996-1998	Member NSF Advisory Panel for Sociology
1996-1998	Member of the NAS/NRC Committee on Human Behavior and Military Simulation
1996-1997	Member NSF ITO Steering Committee
1994-1995	President for ASA Micro-computing Section (renamed Computers and Sociology)
1993-1994	President Elect for ASA Micro-computing Section (renamed Computers and Sociology)
1993-1994	Elected as Newsletter Editor for TIMS College on Organizations. Elected to the Council of the SSCA.
1993-1994 1992-1993	Elected to the Council of the ASA Micro-computing Section
1990	Invited by the American Sociological Association to present a didactic seminar at the annual
1770	meetings. "Computer Analysis of Qualitative Data". ASA meetings: Washington DC.
1989	Invited by the American Sociological Association to present a didactic seminar at the annual
	meetings. "Computer Analysis of Qualitative Data". ASA meetings: San Francisco, CA.
1989	Certificate from the Social Sciences Applications Special Interest Group of the Operations
	Research Society of America for "Innovative Management Theory and Its Applications".
1982-1983	Alternate for Graduate School of Arts and Sciences merit fellowship - Harvard University.
1982	CUE Guide Citation for teaching Sociology 156.
1981-1982	Nominated by Harvard University Sociology Department for Graduate School Arts and Sciences
1000	merit fellowship. Class Rank 1.
1980	CUE Guide Citation for teaching Sociology 156.
1978	American Assoc. of University Women National Fellowship graduate study at MIT, Polit. Science

BOOKS

- Il-Chul Moon, Kathleen M. Carley, T.G. Kim. 2013, Modeling and Simulating Command and Control for Organizations under Extreme Situations. Springer.
- Christopher C. Yang, Hsinchun Chen, Michael Chau, Kuiyu Chang, Sheau-Dong Lang, Patrick Chen, Raymond Hsieh, R., Zeng, D., Wang, F.Y., Kathleen M, Carley, and Mao, W. eds., 2008. Intelligence and Security Informatics: IEEE ISI 2008 International Workshops: PAISI, PACCF and SOCO 2008, Taipei, Taiwan, June 17, 2008, Proceedings (Vol. 5075). Springer.
- Zhiang Lin and Kathleen M. Carley, 2003, Designing Stress Resistant Organizations: Computational Theorizing and Crisis Applications, Boston, MA: Kluwer.
- Michael J. Prietula, Kathleen M. Carley and Les Gasser (Eds.), 1998, Simulating Organizations: Computational Models of Institutions and Groups, Menlo Park, CA: AAAI Press / The MIT Press.
- Robert W. Lawler and Kathleen M. Carley, 1996, Advanced Qualitative Methods in the Study of Human Behavior: Case Study and Computing, Norwood, NJ: Ablex.
- Kathleen M. Carley and Michael J. Prietula (Eds.), 1994, Computational Organization Theory, Hillsdale, NJ: Lawrence Erlbaum Associates.
- David S. Kaufer and Kathleen M. Carley, 1993, Communication at a Distance: The Effect of Print on Socio-Cultural Organization and Change, Hillsdale, NJ: Lawrence Erlbaum Associates.

MONOGRAPHS

- Kathleen M. Carley (panel member), 2019, National Academies of Sciences, Engineering, and Medicine. A Decadal Survey of the Social and Behavioral Sciences: A Research Agenda for Advancing Intelligence Analysis. Washington, DC: The National Academies Press. DOI: https://doi.org/10.17226/25335
- Kathleen M. Carley (panel member), 2016, From Maps to Models: Augmenting the Nation's Geospatial Intelligence Capabilities, National Research Council. The National Academies Press. Washington D.C. DOI: https://doi.org/10.17226/23650
- Kathleen M. Carley (panel member), 2014, *Developing a* 21st *Century Global Library for Mathematics Research*, National Research Council. The National Academies Press. Washington D.C. DOI: https://doi.org/10.17226/18619
- Kathleen M. Carley (panel member), 2013, *Frontiers in Massive Data Analysis*, National Research Council. The National Academies Press. Washington D.C. DOI: https://doi.org/10.17226/18374
- Kathleen M. Carley (panel member), 2013, *Future U.S. Workforce for Geospatial Intelligence*, National Research Council. The National Academies Press. Washington D.C. DOI: https://doi.org/10.17226/18265
- Kathleen M. Carley (panel member), 2008, Behavioral Modeling and Simulation, From Individuals to Societies, National Research Council. Greg L. Zacharias, Jean MacMillan, and Susan B. Van Hemel, editors, The National Academies Press, Washington, DC. DOI: https://doi.org/10.17226/12169
- Kathleen M. Carley (panel member), 2006, *Modeling Community Containment for Pandemic Influenza: A Letter Report*, National Research Council. The National Academy Press. Washington, D.C. DOI: https://doi.org/10.17226/11800
- Kathleen M. Carley (panel member), 2006, Defense Modeling, Simulation and Analysis: Meeting the Challenge, National Research Council. The National Academy Press. Washington, D.C. DOI: https://doi.org/10.17226/11726
- Ronald Breiger, Kathleen M. Carley, and Philippa Pattison (Eds.). 2003. Dynamic Social Network Modeling and Analysis: Workshop Summary and Papers. Committee on Human Factors, Board on Behavioral, Cognitive, and Sensory Sciences. Washington, DC: National Academy Press. DOI: https://doi.org/10.17226/10735
- Kathleen M. Carley (panel member), 1998, *Modeling Human and Organizational Behavior: Application to Military Simulations*, Final Report, Richard W. Pew, and Anne S. Mavavor, editors. National Research Council, National Academy Press. Washington D.C., DOI: http://www.nap.edu/readingroom/enter2.cgi?0309060966.html
- Kathleen M. Carley (panel member), 1997, Representing Human Behavior in Military Simulations, Interim Report, Richard W. Pew, and Anne S. Mavavor, editors. National Research Council, National Academy Press. Washington D.C. DOI: https://doi.org/10.17226/5714

ARTICLES: ORGANIZATIONS AND INSTITUTIONS

- Jeongkeun Shin, L. Richard Carley, and Kathleen M. Carley, 2024, "Simulation-Based Study on False Alarms in Intrusion Detection Systems for Organizations Facing Dual Phishing and DoS Attacks." In 2024 Annual Modeling and Simulation Conference (ANNSIM), Best Paper Runner Up https://ieeexplore.ieee.org/abstract/document/10732653
- Jeongkeun Shin, Geoffrey B. Dobson, L. Richard Carley, and Kathleen M. Carley, 2024, "Design, Modeling and Simulation of Cybercriminal Personality-Based Cyberattack Campaigns." In *2024 Winter Simulation Conference (WSC)*, pp. 2058-2069. IEEE, 2024.
- Jeongkeun Shin, Kathleen M. Carley, and L. Richard Carley, 2023, "Integrating Human Factors into Agent-Based Simulation for Dynamic Phishing Susceptibility." In: Thomson, R., Al-khateeb, S., Burger, A., Park, P., A. Pyke, A. (eds) Social, Cultural, and Behavioral Modeling. SBP-BRiMS 2023. Lecture Notes in Computer Science, vol (14161): 169-178. Springer, Cham. DOI: https://doi.org/10.1007/978-3-031-43129-6 17
- Rex Chen, Kathleen M. Carley, Fei Fang, and Norman Sadeh, 2023-forthcoming, "Purpose in the Machine: Do Traffic Simulators Produce Distributionally Equivalent Outcomes for Reinforcement Learning Applications?" In Proceedings of the 2023 Winter Simulation Conference (WSC23), C. G. Corlu, S. R. Hunter, H. Lam, B. S. Onggo, J. Shortle, and B. Biller (Eds). DOI: https://doi.org/10.48550/arXiv.2311.08429
- Ibrahim Rahhal, Ismail Kassou, Mounir Ghogho, and Kathleen M. Carley, 2023, "Two Stage Job Title Identification System for Online Job Advertisements." *IEEE Access* 2023 vol (11): 19073-19092, DOI: https://doi.org/10.1109/ACCESS.2023.3247866
- Jeremy Straughter and Kathleen M. Carley, 2021, "Towards a network theory of regulatory burden." *Applied Network Science* 6:70, DOI: https://doi.org/10.1007/s41109-021-00414-2
- Gian Maria Campedelli, Iain Cruickshank and Kathleen M. Carley, 2021, "Multi-modal Networks Reveal Patterns of Operational Similarity of Terrorist Organizations." *Terrorism and Political Violence*, 23. DOI: https://doi.org/10.1080/09546553.2021.2003785
- Geoffrey B. Dobson and Kathleen M. Carley, 2020, "Towards Agent Validation of a Military Cyber Team Performance Simulation." In: Thomson, R., Bisgin, H., Dancy, C., Hyder, A., Hussain, M. (eds) Social, Cultural, and Behavioral Modeling. SBP-BRiMS 2020. Lecture Notes in Computer Science, vol (12268). Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-61255-9_18_182-191.
- Iain Cruickshank, and Kathleen M. Carley, 2020, "Detecting malware communities using socio-cultural cognitive mapping" *Computational and Mathematical Organization Theory*, vol 26 307-319.DOI: 10.1007/s10588-019-09300-w
- Luke Osterritter and Kathleen M. Carley, 2020, "Modeling interventions for insider threat". In Social, Cultural, and Behavioral Modeling: 13th International Conference, SBP-BRiMS 2020, Washington, DC, USA, October 18–21, 2020, Proceedings. Springer-Verlag, Berlin, Heidelberg, 55–64. DOI: https://doi.org/10.1007/978-3-030-61255-9_6
- Gian Maria Campedelli, Iain Cruickshank, and Kathleen M. Carley, 2019, "Complex networks approach to find latent clusters of terrorist groups," *Applied Network Science* 4:29. DOI: https://appliednetsci.springeropen.com/articles/10.1007/s41109-019-0184-6
- Gian Maria Campedelli, Mihovil Bartulovic and Kathleen M. Carley, 2019, "Pairwise Similarity of Jihadist Groups in Target and Weapon Transitions," *Journal of Computational Social Science*. pp.1-26. DOI: <u>10.1007/s42001-019-00046-8</u>
- Geoffrey Morgan and Kathleen Carley, 2019, "Characterizing Organizational Micro-Climates in Structural Groups," In Proceedings of the International Conference SBP-BRiMS 2019, Halil Bisgin, Ayaz Hyder, Chris Dancy, and Robert Thomson (Eds.) July 9-12, 2019, Washington DC, Springer. DOI: https://doi.org/10.1007/978-3-030-21741-9_2
- Thomas Magelinski, Jialin Hou, Tymofiy Mylovanov and Kathleen M. Carley, 2019, "Detecting Disruption: Identifying Structural Changes in the Verkhovna Rada," In Proceedings of the International Conference SBP-BRiMS 2019, Halil Bisgin, Ayaz Hyder, Chris Dancy, and Robert Thomson (Eds.) July 9-12, 2019, Washington DC, Springer. DOI: https://doi.org/10.1007/978-3-030-21741-9_20
- Thomas Magelinski and Kathleen M. Carley, 2019, "Analytic Models of Roll Call Voting Dynamics." *IEEE Transactions on Computational Social Systems*, 6(5); 932-942. DOI: 10.1109/TCSS.2019.2907022

- Geoffrey B. Dobson, Aunshul Rege, Kathleen M. Carley, 2018, "Informing Active Cyber Defense with Realistic Adversarial Behaviour," *Journal of Information Warfare*, 17(2): 16-31. https://www.jstor.org/stable/26633151
- Gian Maria Campedelli, Iain Cruickshank, Kathleen M. Carley, 2018, "Detecting Latent Terrorist Communities Testing a Gower's Similarity-based Clustering Algorithm for Multi-Partite Networks." In the Proceedings of the International Conference on Complex Networks and Their Applications. DOI: https://doi.org/10.1007/978-3-030-05411-3 24
- Geoffrey B. Dobson and Kathleen M. Carley, 2018, "A Computational Model of Cyber Situational Awareness," In Proceedings of the International Conference SBP-BRiMS 2018, Halil Bisgin, Ayaz Hyder, Chris Dancy, and Robert Thomson (Eds.) July 10-13, 2018, Washington DC, Springer. DOI: https://doi.org/10.1007/978-3-319-93372-6-43
- Thomas Magelinski and Kathleen M. Carley, 2018, "Legislative Voting Dynamics in Ukraine," In Proceedings of the International Conference SBP-BRiMS 2018, Halil Bisgin, Ayaz Hyder, Chris Dancy, and Robert Thomson (Eds.) July 10-13, 2018, Washington DC, Springer. DOI: https://doi.org/10.1007/978-3-319-93372-6 10
- Geoffrey B. Dobson, Timothy J. Shimeall and Kathleen M. Carley, 2017, "Towards Network Science Enhanced Cyber Situational Awareness." *International Journal on Cyber Situational Awareness*, 1(1):11-30. DOI 10.22619/IJCSA.2017.100112
- Kathleen M. Carley and Geoffrey P. Morgan, 2016, "Inadvertent leaks: exploration via agent-based dynamic network simulation." *Computational and Mathematical Organization Theory* 22(3): 288-317. DOI: https://doi.org/10.1007/s10588-016-9215-3
- Kathleen M. Carley, 2015-forthcoming, "Crisis Mapping: Big Data from a Dynamic Network Analytic Perspective," *Journal of Organization Design*.
- Geoffrey P. Morgan, Kenneth Joseph, and Kathleen M. Carley, 2015, "Group-Based Transactive Memory to implement Computationally Plausible Social Cognition in Agents." BRiMS'15, Washington D.C.
- Judith Gelernter and Kathleen M. Carley, 2015, "Spatiotemporal Network Analysis and Visualization," *International Journal of Applied Geospatial Research (IJAGR)*, 6(2):77-97. DOI: 10.4018/ijagr.2015040105
- Bizhan Jamshidnezhad and Kathleen M. Carley, 2014, "Agent-based modeling of quality management effects on organizational productivity", *Journal of Simulation*, 9(1), 73-82. DOI: 10.1057/jos.2014.26
- Gregory L. Alexander, Kaylan S. Pasupathy, Linsey M Steege, E. Bradley Strecker, and Kathleen M. Carley, 2014, "Multi-disciplinary communication networks for skin risk assessment in nursing homes with high IT sophistication," *International Journal of Medical Informatics*, 8(7): 507-517. Available from DOI: 10.1016/j.ijmedinf.2014.05.001
- Michael J. Lanham, Geoffrey P. Morgan, and Kathleen M. Carley, 2014, "Social Network Modeling and Agent-Based Simulation in Support of Crisis De-escalation." *IEEE Transactions on Systems, Man, and Cybernetics: Systems.* 44(1): 103-110. DOI: 10.1109/TSMCC.2012.2230255
- Geoffrey P. Morgan and Kathleen M. Carley, 2014, "Comparing hiring strategies in a committee with similarity biases." *Computational & Mathematical Organization Theory*, 20(1): 1-19. DOI: 10.1007/s10588-012-9130-1.
- XC Wei, Bin Hu, and Kathleen M. Carley, 2013, "Combination of Empirical Study and Qualitative Simulation for Optimizing Customer's Mobile Banking Adoption Behavior." *JASSS*, 16(3). DOI: 10.18564/jasss.2222.
- Jun Ai, Hai Zhao, Zhan Su, and Kathleen M. Carley, 2013, "Evolution of IPv6 Internet Topology with Unusual Sudden Changes," *Chinese Physics B*, 22(7). Chinese Physical Society. DOI: 10.1109/WiCOM.2012.6478734.
- Craig Schreiber and Kathleen M. Carley, 2013, "Validating Agent Interactions in Construct Against Empirical Communication Networks Using the Calibrated Grounding Technique," *IEEE Transactions on Systems, Man and Cybernetics-Part A*, 43(1): 208-214. DOI: 10.1109/TSMCA.2012.2192104
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- Lynnette Hui Xian Ng and Kathleen M. Carley, 2025, "Social Cyber Geographical Worldwide Inventory of Bots." arXiv preprint arXiv:2501.18839.
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- Lynnette Hui Xian Ng, Wenqi Zhou, and Kathleen M. Carley, 2024, "Exploring Cognitive Bias Triggers in COVID-19 Misinformation Tweets: A Bot vs. Human Perspective." arXiv preprint arXiv:2406.07293 (2024).
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- Kathleen M. Carley and John Harrald, 1992, "Organizing for Response: Comparing Practice Plan and Theory," Natural Hazards Observer, 17.2: 1-3.
- Zhiang Lin and Kathleen M. Carley, 1992, "Maydays and Murphies: A Study of the Effect of Organizational Design, Task and Stress on Organizational Performance," Sociological Abstracts.
- Kathleen M. Carley and Norm Hummon, 1992, "Why New Fields Emerge (or Fail to Do So): A Preliminary Examination," Sociological Abstracts.
- Kathleen M. Carley, 1991, "Structural Constraints on Communication: The Diffusion of the Homomorphic Signal Analysis Technique through Scientific Fields," Abstract Only, Sociological Abstracts, 15.3-4: 207-246, DOI: 10.1080/0022250X.1990.9990070
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- Kathleen M. Carley, 1991, "On the Persistence of Beliefs," Sociological Abstracts.
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- Kathleen M. Carley, 1987, "Increasing Consensus through Shared Social Position and Interaction," Sociological Abstracts.
- Kathleen M. Carley, 1987, "Language: Society's Chronicle," Sociological Abstracts.

BOOK REVIEWS

Kathleen M. Carley, 1989. Review of Saris and Gallhofer "Sociometric Research V1: Data Collection and Scaling," Journal of Classification Research, 6(2): 301-304.

SELECTED WORKING PAPERS

- Ronald Robertson, Evan Williams, Renee DiResta, Kathleen Carley, and David Thiel, 2025, Data Voids and Warning Banners: Evaluating Content Moderation on Google Search, Working paper presented at ICA25,
- Jeongkeun Shin, L. Richard Carley and Kathleen M. Carley, 2024, "Modeling Human Organization Responsive to Phishing Using Empirical Collage Approach," SBP-BRiMS online working papers.
- Christine Sowa Lepird and Kathleen M. Carley, 2024, "Comparing Social-cyber Maneuvers Across Platforms and News Types During the 2022 U.S. Midterm Election," SBP-BRiMS online working papers.
- Luke J. Osterritter and Kathleen M. Carley, 2024, "A Bibliometric Aooroach to Understanding Insider Threat Scholarship," SBP-BRiMS online working papers.
- Rebecca Marigliano, Jacob Shaha and Dr. Kathleen M. Carley, 2024, "Logical Momentum: Leveraging the BEND Framework to Determine Optimal Patterns and Sequences for Network Influence," SBP-BRiMS online working papers.
- Catherine King & Kathleen M. Carley, 2024, "Leveraging Media Literacy Training to Promote Social Corrections," SBP-BRiMS online working papers.
- Ian Kloo and Kathleen M. Carley, 2024, "A Comparison of pro-Hamas and pro-Ukraine Crowdsourced Cyber Attack Coordination on Telegram," SBP-BRiMS online working papers.
- Shahan Ali Memon, and Kathleen M. Carley, 2020, "Characterizing covid-19 misinformation communities using a novel twitter dataset." arXiv preprint arXiv:2008.00791.
- Wei Wei, Kenneth Joseph, and Kathleen Carley, 2017, "Efficient Online Inference for Infinite Evolutionary Cluster models with Applications to Latent Social Event Discovery." arXiv preprint arXiv:1708.06000.
- Terrill L. Frantz, Ian McCulloh, and Kathleen M. Carley, 2008, "Estimating the Reliability of Top-Actor Identification," Network Science Report Journal, 2, The Network Science Center, United States Military Academy.
- Maksim Tsvetovat, Kathleen M. Carley and Katia Sycara, "A Multi-Agent Model of Emergence of Market Segmentation" in Modeling Autonomous Agents in a Multi-Agent World IV Lecture Notes on Artificial Intelligence 2004, Edited by Yves Demazeau, Francisco Garijo (Eds.), Springer-Verlag.
- Carter Butts and Kathleen M. Carley, 2001, "Spatial Models of Large Scale Interpersonal Networks," CASOS Working Paper, Carnegie Mellon University.
- Carter Butts and Kathleen M. Carley, 2000, "Canonical Labeling to Facilitate Graph Comparison."
- Kathleen M. Carley, "Adaptive Organizations and Emergent Forms," CASOS Working Paper, Carnegie Mellon University.
- Doug Wholey, Sara Kiesler, and Kathleen M. Carley, "Learning Teamwork: Emergence of Communication and Structure in Novice Software Development Teams," Social and Decisions Sciences, Carnegie Mellon University.
- Kathleen M. Carley and David Krackhardt, "A Structural Perspective on Organizational Cognitions: Attributions of Power, Performance and Attitudes," Working Paper, H.J. Heinz III School of Public Policy and Management, Carnegie Mellon University.

TECHNOLOGY

McGhee Hassrick, E., Phan, P., Blank, J., Finamore, T., Naftzger, S., Conville, C., Baggaley, M., Torres, D., Fauzi, F., Radcliffe, A., Garvin, B., Sweeney Blakely, B., Kasari, C., Stahmer, A., Mandell, D., Iadarola, S., Carley, K., & Drexel University (2021). Trestle (version 1). [Web app.] https://teamtrestle.org

Invited Keynotes and Plenary Talks		
10/2024	"Threat Identification and Analysis Using AI+Network Technologies." National Security AI	
	Workshop, University of Tennessee, Knoxville	
5/2024	"Scalable Technologies for Information Operations," Plenary Presentation AI2C, Pittsburgh, PA	
11/2023	"Counling in High Dimensional Networks" Keynote Complex Networks 2023 Nice France	

8/2023	"Future Directions in Social Networks," Live Broadcast Panel from Lund for the Nobel
	Symposium on Social Networks.
8/2023	"The Power of High Dimensional Networks" Nobel Symposium on Social Networks, Plenary,
	Lund, Sweden
7/2023	"Influence: Social Cognition and Inauthentic Actors in High Dimensional Networks," Keynote,
	NetSci, Vienna, Austria
7/2023	"Persuasion, Identity, and Morality in Social-Cyber Environments," Plenary, MURI Conference,
	Virtual
7/2023	"The BEND Framework and Omen," Plenary, TTCP, Quebec, Canada
5/2023	"Simulating Societal Systems: Issues in linking the Micro and Macro," Keynote, Annual
	Simulation and Modeling Conference, Hamilton ON, Canada
5/2023	"Social Cybersecurity: Synthesizing Social Science Theory, AI & Network Science to Support
0 0 _ 0	Social Engagement," Keynote, SAIDD Symposium, Songdal, Norway
11/2022	"Influence and Coordination: Detecting Interesting Activity in Social Media," Keynote, Drums
11/2022	2022: Security in a Post Truth World
10/2022	"Social Cybersecurity & Influence Campaigns," NATO IST, Stockholm
8/2022	"What Lies Beneath," Keynote, CCAC2022 – Virtual
12/2021	"Orchestrating Change with Disinformation and Influence," Keynote, IEEE 2021
12/2021	"Influence Campaigns," CIC/CogMI/TPS Joint Conference, Opening Plenary Panel – Virtual
12/2021	"Online Terrorism and Insider Threat," 7th Workshop on Research for Insider Threats – Virtual
6/2021	"Socially Influence Campaigns: The Coordination of Events Using Bots and Misinformation,"
0/2021	Plenary Panel, NSF Prepare workshop: Social, Behavioral, economic and governance aspects of
	pandemics – Virtual
6/2021	"State of Deepfakes and Disinformation Online," Deepfakes, Disinformation & Democracy (D3)
0/2021	
5/2021	Conference, Opening Plenary Panel – Virtual
5/2021	"Disinformation and Manipulation during COVID-19 & the Election," Keynote, SAMSI – Virtual
1/2021	"The Power of High Dimensional Networks," Keynote, North American Social Network (NASN)
1/2021	- Virtual
1/2021	"Technology and Disinformation," MIT CSAIL IAP 2021: Workshop on Democracy – Virtual
12/2020	"Social Cybersecurity," Plenary, MORS Emerging Technology Forum (ETF) – Virtual
11/2020	"Social Cybersecurity: Observations and Directions," IDeaS Conference: Social Cybersecurity in
10/000	Times of Crisis and Change, Carnegie Mellon University, Pittsburgh, PA – Virtual
10/2020	"Social Influence and Disinformation in Cyberspace," Open Science Symposium, Carnegie
	Mellon University, Pittsburgh, PA – Virtual
10/2020	"Disinformation and Manipulation in Cyberspace," Keynote – Greffenstette Symposium:
	Disinformation, Misinformation and Technology, Duquesne, Pittsburgh, PA – Virtual
10/2020	"Social Cybersecurity and the Election," Plenary, Disinformation One Month from the Election
	Virtual Round Table, CMU Computer Science
10/2020	"Disinfodemic," Keynote – McGowan Symposium on Business Leadership and Ethics – Virtual
10/2020	"Disinformation Playground for Bots and Trolls," Keynote – WPFC – Virtual
10/2020	"Misinformation and disinformation in social media and the role bots play during the pandemic,"
	Invited Plenary – SPB-BRiMS – Virtual
10/2020	"Social Cybersecurity," Keynote – ISAT/DARPA Digital Innoculation at Scale – Virtual
6/2020	"Social Cybersecurity and the Pandemic." Keynote – ICWSM – Virtual
2/2020	"Analysis of Social Networks for Intelligence," Plenary, Army War College Workshop, Carnegie
	Mellon University, Pittsburgh, PA.
2/2020	"Influence Campaigns in Social Media," Plenary, Hacking Democracy: Influence operations in the
	Digital Age, Oslo, NO
12/2019	"Russian and Chinese Influence in Social Media," Plenary, Best Practices and Gaps to Be
	Closed—Addressing Foreign Interference in Democratic (and Other) Institutions, The Atlantic
	Council, Washington DC Cohosted by Carnegie Mellon University, Washington, DC
12/2019	"Advances and Opportunities in Social-Cybersecurity," Plenary, DHS Foreign Interference,
	Washington DC
12/2019	"CUES - Understanding information maneuvers in social media using implicit information,"
	Keynote - TextXD: Text Analysis across Domains, University of California, Berkeley, CA
11/2019	"Artificial Intelligence and Social Cybersecurity," Keynote - AAAI Symposium on AI in
	Government and Public Sector, Washington DC
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10/2019	"Influence Operations: BEND maneuvers using bots and memes for Social Cybersecurity,"
	Plenary, The NATO Science for Peace, and Security Programme: Senior Leadership Roundtable
	on Information-Related Hybrid Threats in Southeast Europe, Ohrid, Macedonia
10/2019	"Social Cognition: Why Simple Learning Models Fail," Plenary, Conference in Honor of Jim
	March, CMU, Pittsburgh, PA
9/2019	"Social Cybersecurity," Plenary, Decadal Launch Event, National Academies, Washington DC
7/2019	"Decadal Survey Report: Sense Making & Social Cybersecurity," Plenary, SBP-BRiMS,
	Washington DC
7/2019	"Social Cybersecurity," Plenary, DHS Conference on Disinformation
4/2019	"Social Cybersecurity Dynamics," Keynote Computational Social Science – Quo Vadis? An
	Interdisciplinary Symposium Honoring Kathleen M. Carley, University of Zurich, Zurich
	Switzerland https://uzhdag.github.io/css/
4/2019	"Information Maneuver Assessment," Keynote - StratComAPAC2019, Singapore Singapore
4/2019	"Social Cybersecurity Dynamics," Keynote - SocialSens, Montreal Canada
11/2018	"Social Cybersecurity," Keynote - IEEE Intelligence and Security Informatics, Florida
11,2010	International University, Miami, FL
10/2018	"Social Cybersecurity," Keynote MOBICOM, Delhi, India
9/2018	"Network Analysis and AI for Humanitarian Assistance and Disaster Response," Plenary, AI and
,	HADR workshop, AI Visionary Talk, Carnegie Mellon University, Pittsburgh, PA
12/2017	"Geo-Spatial Social Network Analysis of Social Media to Mitigate Disasters," Plenary, AGU,
12/2017	New Orleans, LA
10/2017	"Influence Operations, Bots and ORA," Plenary, TIDESPRINT – NATO, Virginia Beach, VA
9/2017	"Diffusion in the Social-Cyber Landscape: Using simulation to explore the link between off-line
<i>31</i> 2 017	and on-line activity," Plenary, Social Simulation Conference 2017, September 25-29, 2017,
	Dublin Ireland
8/2017	"Social Influence Bots and Disinformation," Plenary, JCOIE Workshop, Disinformation,
0,201,	Propaganda, & Computational Propaganda Panel, Washington D.C.
7/2017	"Social Influence on the Web: Bots and Fake News," Plenary, IC2S2, Cologne, Germany
4/2017	"Networks and Social Change," Plenary, Rand Workshop – DARPA Santa-Monica, CA
3/2017	"Wisdom or Ignorance: The thoughtful use of networks," Plenary, 8th Annual ANN SONIC
5,201,	workshop on Network Theory, March 23-25, 2017, at USC, in Los Angeles
12/2016	"Knowledge Dynamics," Plenary, Networks as Indicators of Science and Engineering Activity
	(NCES) NSF Workshop, George Washington University, Washington, DC
10/2016	"NATO: Lessons Learned on Network Analysis of Social Media," Plenary, TIDESPRINT –
	NATO, Virginia Beach, VA
10/2016	"Dynamic Networks in a Cyber-Mediated World." Keynote PRO-VE 2016 – Collaboration in a
10,2010	Hyperconnected World, Porto, Portugal
9/2016	"Tracking Change in the Cyber-Mediated World." Plenary, Symposium on Frontiers on Big Data,
,,,	University of Illinois at Urbana-Champaign, Urbana-Champaign, IL
7/2016	"Tracking Dynamic Networks: Data Challenges for Real World Applications," Keynote IRI,
,	Pittsburgh, PA
4/2016	"Dynamic Network Analysis of Social Media Data," New Trends in Social Media, NATO
	Strategic Communications Centre of Excellence STRATCOM, Riga Latvia
4/2016	"Social Media Network Analytics," NATO ACT-Sprint, Krackow, Poland
3/2016	"Dark Networks and Dynamic Network Analytics," Dark Web Conference, Naval Post Graduate
	School, Monterey, CA
10/2015	"Predicting the Group: Data Science for Human Socio-Cultural Understanding and Prediction,"
	University of Michigan Data Science Symposium, Ann Arbor, MI
6/2015	"Twitter, Terror and Terms: Network analytics for assessing large scale media data," Keynote
	PolNet, Portland, OR
5/2015	"Social Cognition: Intelligence within and about networks," California Cognitive Science
	Conference, Berkeley,CA
3/2015	"Social Media Analytics Using Dynamic Network Methodologies," Keynote, DHS CCICADA,
- -	Pittsburgh, PA
7/2014	"Networks, Language, Organizations," Academy of Management, Philadelphia, PA
7/2014	"Social Media, Security and Personal Information," Keynote Networking Information Technology
	Research and Development (NITRD), Washington DC
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3/2014	"Analyzing and Simulating Dynamic Networks," Rand Conference, Arlington, VA
3/2014	"Dynamic Network Analytics for Cyber Warfare," CENTCOM Technical Exchange, Tampa, FL
11/2013	"Network Analysis and Visualization," Approaches to Dynamic Network and Scientometric
	Analysis within the IC, Washington DC
9/2013	"Open Source Exploitation for Understanding Covert Networks," Dark Networks, WestPoint, NY
8/2013	"Networks and Agents: The Value of a Multi-Level Approach to Agent-Based Dynamic- Network
	Modeling." Statistical and Applied Mathematical Sciences Institute (SAMSI), Raleigh-Durham,
	NC
5/2013	"Crisis Mapping: Big Data from a Dynamic Network Analytic Perspective," World Summit on
	Big Data and Organization Design, Paris, Fr.
3/2013	"Dynamic Network Approach to Health Surveillance," PACOM S&T 2013, Honolulu, HI
10/2012	"Geo-Temporal Dynamic Network Analysis: Lessons Learned from Arab Spring," GEOINT 2012:
	Creating the Innovation Advantage, Orlando, FL
9/2012	"Geo-Spatial Network Analysis: Applications and Challenges," UBICOM, Keynote, Pittsburgh,
	PA
6/2012	"Political Evolution and Revolution: A Network Assessment of Sudan and Arab Spring Power
1/0010	Transformations," Keynote, St. Petersburg, Russia
4/2012	"Secondary Actors and Communicative Reach," Graph Exploitation, Keynote, Boston, MA
4/2012	"Dynamic Network Analysis," SBP12 International Conference, College Park, MD
3/2012	"Dynamic Network Analysis of the Arab Spring," IMA, University of Minnesota, Minneapolis,
5/2011	MN
5/2011	"Crisis Response – Rapid Ethnographic Assessment," Stanford Social Conference on
3/2011	Humanitarian Assistance and Disaster Response, Colorado Springs, CO.
3/2011	"Dynamic Networks," BAH conference, McClean, VA. "Networks of Learners: Linking Network Science and Agent Based Modeling," Behavioral
3/2011	Representation in Modeling and Simulation (BRIMS) Conference, March 23, 2011, Sundance,
	UT.
2/2011	"Embedded Conversations: Trails of Constraints in Every Day Life," INSNA Keynote, February
2/2011	2011, St. Petersburg, FL.
12/2010	"The Social Network Perspective," Spatio-Temporal Constraints on Social Networks / Specialist
12/2010	Meeting, Santa Barbara, CA.
9/2010	"Complexity: A Dynamic Network Perspective" Keynote, Forum on Complex Systems, UNC
<i>3</i> ,2010	Charlotte, Charlotte, NC
12/2009	"Dynamic Network Analytical Reasoning", Queens College, London, England.
10/2009	"Geo-Temporal Network Analysis", Keynote, USMA Network Science Conference, West Point,
	NY.
10/2009	"Dynamic Network Analysis: From Social Network Analysis to Network Science to Cyber
	mediated Dynamic Network Science", USMA Network Science Conference, West Point, NY.
9/2009	"Dynamic Network Analysis for Naval Operations" ONR Working Group on New Maritime
	Technology Workshop 2009, Sep 24; Honolulu, HI
9/2009	"Small World Problem and the Navy" ONR Working Group on New Maritime Technology
	Workshop 2009, Sep 24; Honolulu, HI
7/2009	"Dynamic Network Analysis and Security" CISDA Computational Intelligence for Security and
	Defense Applications 2009, Ottawa, Ontario
6/2009	"Dynamic Network Analysis: New Capabilities and a Look into the Future." Human Behavior-
	Computational Intelligence Modeling Conference 2009, Oak Ridge, Tennessee
4/2009	"Dynamic Network Analysis", Keynote, Social Networks and Multiagent Systems Symposium,
	AISB, Edinburgh, Scotland.
10/2008	"Geo-Temporal Network Analysis," USMA Network Science Conference, West Point, NY
9/2008	"Networks Through Space and Time," Intra-Organizational Networks Conference (ION),
C/2000	Lexington, Kentucky
6/2008	"Organizational Modeling with Dynamic Network Analysis," IBM Services Research Strategy
5/2009	Meeting, Hawthorne, New York.
5/2008	"Modeling and Simulation, State of the Art," ONR Social, Cultural and Computational Science
5/2009	Workshop, Washington DC. "Dynamic Naturals Applying to Support Counter Narractics Activities" 2008 National HIDTA
5/2008	"Dynamic Network Analysis to Support Counter-Narcotics Activities" 2008 National HIDTA
	Conference, Coronado, CA.

4/2000	
4/2008	"Advances and Challenges in Dynamic Network Analysis," Analyzing the Impact of Emerging
4/2000	Societies on National Security, MORS, Chicago, IL
4/2008	"Vibes," OneSaf, Orlando, FL.
3/2008	"Dynamic Network Analysis," Exploring Creative Approaches to Intelligence Problems,
2/2009	Washington DC. "Demonic Naturals and Con Statish Boundary at the "Laterantical Workshop on Cultural
3/2008	"Dynamic Network and Geo-Spatial Representation," International Workshop on Cultural
3/2008	Intelligence, London, UK. "Drynomic Network Analysis" National Guard Country Dryno Conference, Weshington DC
1/2008	"Dynamic Network Analysis," National Guard Counter Drug Conference, Washington DC. "Dynamic Network Analysis," California Campaign Against Marijuana Planning Conference,
1/2008	Lake Tahoe, CA.
10/2007	"Dynamic Network Analysis: Harnessing Complexity," International Conference on Complex
10/2007	Systems (ICCS-07), Boston, MA.
10/2007	"The promise and challenge of linking social and spatial networks," Frontiers in Transportation
10/2007	Social Interaction, University of Amsterdam, The Netherlands.
9/2007	"Dynamic Network Analysis with ORA: Key Challenges," DIMACS/DyDAn Workshop on
7/2007	Computational Methods for Dynamic Interaction Networks, Rutgers University, New Brunswick,
	NJ.
7/2007	"Network Dynamics: The Challenge of Enron and al Qaeda," UK Social Network Conference,
,,	University of London, London UK.
6/2007	"Dynamic Network Analysis Applications for HPC," DOD High Performance Computing
·· <u>-</u> · · · ·	Modernization Program's (HPCMP) User's Group Conference (UGC), Pittsburgh, PA.
4/2007	"Dynamic Network Analysis for Organizational Management," Navigating Complexity: Doing
	more with less, 2007 Almaden Institute, IBM Almaden Research Center, San Jose, CA.
3/2007	"Dynamic Network Approaches to Counter-Terrorism," Kilby Lecture at the GOMATech 07,
	Lake Buena Vista, FL.
2/2007	"Mapping Social Networks with Intelligent Agents," STEP Conference on Improvised Online
	Communications Networks, MITRE Corporation, McLean, VA.
10/2006	"A Dynamic Network Approach to the Assessment of Terrorist Groups and the Impact of
	Alternative Courses of Action," Visualising Network Information Workshop, Copenhagen,
	Denmark.
3/2006	"BioDefense through City Level Multi-Agent Modeling of Bio and Chemical Threats," Spring
	Biosurveillance Workshop, Tucson, AZ.
11/2005	"Dynamic Network Analysis Approach to Adversarial Modeling," AFOSR/Cultural Modeling
	Conference, San Antonio, TX.
6/2005	"Destabilizing Terrorist Network," Defeat Network Enemy Roundtable, Pentagaon, Washington
2/2005	D.C.
2/2005	"Simulation Tool for BioDefense: BioWar," BioTech Conference, Evanston, IL.
11/2004	"An integrated approach to evaluating strategic interventions in terrorist networks," Global War of
0/2004	Terrorism Tool Conference, MORS, US Naval War College Newport, Rhode Island.
9/2004	"Dynamic Network Analysis for Homeland Defense: Destabilizing Terror Networks," DIMACS,
2/2004	Rutgers, The State University. "Complified and Limitations of Current Multi-Agent and Nativerk Modeling." Antime Modeling
2/2004	"Capabilities and Limitations of Current Multi-Agent and Network Modeling," Aptima, Modeling Emerging Asymmetric Threats Workshop, Washington DC.
11/2003	"Modeling Covert Networks," UES Workshop, "Culture and Personality in Models of Adversarial
11/2003	Decision-Making," Washington, DC.
10/2003	"Network and multi-agent based approached," Aptima, Modeling Emerging Asymmetric Threats
10/2003	Workshop, Washington, DC.
3/2003	"Destabilizing Covert Networks", Stonecipher Symposium 2003 on Homeland Security,
3/2003	Tennessee, http://www.tntech.edu/stonecipher/
10/2002	"Simulating Society: The Tension Between Transparency and Veridicality", Keynote, Agents
10/2002	2002, Chicago, IL.
3/2002	"Computational Organization Science: The systemic analysis of social complexity", Plenary,
	Naval Post Graduate School, Monterey, CA
1/2002	"Destabilizing Networks" Society for Computer Simulation, VWSIM, San Antonio, TX
5/2002	"Dynamic Network Analysis" National Academy of Science Presentation
5/2001	"Organizational Adaptation in a Changing Environment" Keynote, Japanese Society for Artificial
	Intelligence (JSAI 2001). Matsue City, Shimane Japan
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5/2001	"On the Evolution of Networks", Plenary, JSAI 2001 International Workshop on Agent-based
	Approaches in Economic and Social Complex Systems (AESCS 2001) Matsue City, Shimane Japan.
1/2001	"Implications of Complexity Research for Organizational Change" Keynote, NSF Design, Service
11/2000	and Manufacturing Grantees and Research Conference, Tampa, FL
11/2000	"Organizations as Intelligent Complex Adaptive Systems" Plenary, IBERAMIA 2000, Sao Paulo, Brazil
10/2000	"Computational Social Science: Agents, Interaction and Dynamics", Agents 2000, Keynote,
	University of Chicago, Chicago IL
5/2000	"Complexity and Society", Plenary, NECSI, Nashua NH
7/1999	"Opening up the Black Box: Organizational Design as Dynamic Networks." PEW Workshop
7/1998	"Adaptive Organizations and Emergent Forms" Plenary, Third International Conference on Multi- Agent Systems, Cite des Sciences - La Villette, Paris, France
7/1990	"Changing Information Technologies," Keynote address IFPS Meeting. Pittsburgh, PA.
INVITED TAL	JKS
10/2024	"Social Cybersecurity and Network Science," SCS Dean's Advisory Board, CMU-CA
10/2024	"AI and the Information Environment," American Association of University Women, Pittburgh, PA
9/2024	"GenAI based Scenario Creation and Synthetic Data for Training and Planning," CYLAB partners
	conference, CMU
9/2024	"OMEN – Generative AI Based Training and Planning Information Environment," JTSE Working
	Group, Norfolk, VA
9/2024	"Project OMEN and it's use in SLTE24," Suffolk, VA
8/2024	"Scalable Technologies for Social Cybersecurity," CMU, Pittsburgh, PA
7/2024	"Pipeline for Threat Assessment," DSO and MinDef, Singapore
7/2024	"Improving Social-cyber Assessment," Ministry of Digital Development and Information (MDDI), Singapore
7/2024	"Scenarios and Synthetic Data for Training," DSTA, Singapore
7/2024	"OMEN for SLTE," ONR, Washington DC
6/2024	"Computational Social Science and Social Cybersecurity," DSET (Taiwan) Contingent, Pittsburgh, PA
6/2024	"Russ Bernard – Method's Tour", INSNA, Edinburgh, Scotland
6/2024	"LLMs and Networks," INSNA, Edinburgh, Scotland
5.2024	"OMEN and BEND Framework," For DoD, Norfolk Base
3/2024	"Network Science for State Department," State Department, virtual
5/2023	"Multi-Level Models of covert online information campaigns," MINERVA Meeting, Washington
	DC
4/2023	"Social Cybersecurity," Case Western Research University - Virtual
2/2023	"The Power of High Dimensional Networks," North Carolina State University, Wolfs Web Seminar
2/2023	"Social Influence and Influence Campaigns," Proctor and Gamble, AI Division, Decision Science
2,2023	and AI seminar series
2/2023	"Identifying and Combating Misinformation in Healthcare," Allegheny Health Emerging Care
11/2022	"Influence Campaigns," DSTO, Singapore
11/2022	"Social Media Analytics," A* Singapore
9/2022	"A Social CybersecurityApproach to Influence Campaigns," OakRidge National Labs
6/2022	"Scalable Technologies for Open Source Intelligence," U.S. Army Futures Command (AFC) Tech Terrain Walk
6/2022	"Social-Cybersecurity," Panel on Social and Cognitive Basis for Information D, SocialSens22 at
5/2022	ICWSM – Virtual "Disinformation Campaigns and Emerging Technologies," DIA Emerging Technology Syposium
5/2022	- Virtual
5/2022	"Story Lines and Influence in Social Media," Biosecurity Analysis Group – Virtual
5/2022	Member of KRN/CDT Roundtable to congressional staffers on Researcher Data Access – Virtual
3/2022	"Influence, On-line Harms, and Social-cybersecurity," Sandia Intel Science seminar series –

Virtual

3/2022	"Influence Operations: A social-cybersecurity perspective," Social Sciences Working Group series
	(SSAWG) – Virtual
2/2022	"Assessing Terror Attack in France," SOCOM
2/2022	"Social Cybersecurity and Disinformation," Breakfast Buzz – hosted by CMU Enrollment
	Services – Virtual
2/2022	"DNA Technolgoies," Deloitte – Virtual
1/2022	"Dynamic High Dimensional Networks and Emotional Intelligence for Social Cybersecurity,"
	Cynovative Inc. – Virtual
12/2021	"Social Influence and Extremism," SCORE Briefing - Online Extremist Recruitment Targeting
	Military – Virtual
9/2021	"AIX Women in Data Science: Fireside Chat with Dr. Kathleen M. Carley," Accenture Federal –
	Virtual
9/2021	"Terrorism On-Line," Mitigating Societal Harm in a Social Media, IEEE Computer Society –
	Virtual
8/2021	"Disinformation in the Digital Environment," Progressive – Virtual
6/2021	"Influence Campaigns: Potential Roles for Deep Fakes," Computational Disinformation
	Symposium, NYU – Virtual
4/2021	"Disinformation, Hate-speech, and Manipulation during COVID-19 and the Election,"
	Pennsylvania State University – Virtual
4/2021	"Assessing Influence Campaigns in Social Media," SEI & Defense Intelligence Agency – Virtual
2/2021	"Social Media and the 2020 Elections," Special Cyber Operations Research and Engineering –
	Virtual
10/2020	"Disinfodemic: The pandemic and disinformation," Ethics in Computational Social Science,
	Drexel University – Virtual
10/2020	"Social Influence and Disinformation in Cyberspace," Open Science Sumposium, Carnegie
	Mellon University – Virtual
10/2020	"Disonformation in Social Media," Countering Disinformation Panel, Pit-CMU Solarium
10/2020	"Disinformation and Covid-19," Biosecurity Group – Virtual
10/2020	"Covid-19 Disinformation," MAISoN COVID Panel – Virtual
10/2020	"Disinformation & Manipulation in Cyberspace." Grefenstette Symposium, Pittsburgh, PA –
10/2020	Virtual
10/2020	"Social Media Disinformation Landscape" in Combating Disinformation One Month from the
	Election: What State and Local Policy Makers Can Do, CMU AI, Bloc Center, and IDeaS
5/2020	Webinar
5/2020	"COVID-19 and Disinformation." Science and Technology Diplomacy Hub Seminar, Barcelon –
4/2020	Virtual "Disinformation and the CoronaVirus: Early Findings," Stanford webinar – Cyber Policy Center
4/2020	Online Event Series
2/2020	
3/2020 12/2019	"Adversarial Information Campaigns and Covid-19," EUCOM seminar
11/2019	"Influence Campaigns in Social Media," Washington DC Telcon, 95 people "Influence Operations: BEND maneuvers using Bots and Memes for Social Cybersecurity," CMU
11/2019	Cylab Distinguished Speaker Series, Pittsburgh, PA
11/2019	"Social Cyber-Security and Information Maneuvers," George Washington University, Washington
11/2017	DC
10/2019	"Decadal Survey Report for the Social Sciences," HFES, Seattle, Washington
10/2019	"Social Cyber-Security: Assessing Information Maneuvers in Cyber-Space." MITRE
10/2019	Teleconference
10/2019	"Decadal Survey Report for the Social Sciences," IC, Washington DC
9/2019	"Statistical Network Techniques," Minerva Review, Washington DC
7/2019	"Near Real Time Assessment of Emergent Complex Systems of Confederates," MURI Overall
= 0 1 /	Progrm Review, OSD, Washington DC
7/2019	"Decadal Survey Report for the Social Sciences," INGroup, Lisbon, Portugal
7/2019	"Decadal Survey Report for the Social Sciences," IC2S2, Amsterdam, NH
7/2019	"Disinformation and Social Cyber-Security," Special Workshop on Disinformation - SBP-BRiMS,
	Washington DC
6/2019	"Social Cyber-Security," Fed Cybersecurity R&D IWG, Washington DC based Teleconference
6/2019	"Social Cyber-Security Dynamics," SMA speaker, Washington DC based Teleconference

5/2019	"Decadal Survey Report: Social Cyber-Security," APS, Washington DC
5/2019	"Social Cyber-Security Dynamics: Challenges and Key findings," APS Cyber Security Workshop,
	Washington DC
5/2019	"Human Threats versus Machine Threats in Cyber-Security," SMA 2019, Andrews Air Force
	Base, Washington DC
5/2019	"Comments on Social Network and NLP," Digital Tools and the Future of International
3/2019	DevelopmentI, USAID, Washington DC
5/2019	"What Lies Beneath? - Network and social media analytic approaches to information
3/2019	
4/2010	extraction," RTI Fellows Seiminar
4/2019	"Simulating Complex Social-Behavioral Systems," SpringSim, Tucson, AZ
4/2019	"Simulation – Best Practices for Virtual Worlds – Panel," SpringSim, Tucson, AZ
4/2019	"The Next Big Thing in Social Sensing," SocialSens Panel, Montreal Canada
1/2019	"Information Maneuvers as Social Cyber-Security Threats," AFRL Chief Science Seminar Series,
	Wright-Patterson Air force Base, Dayton, OH
8/2018	"Machine Learning for Operational Needs," SMA Limits of AI Speaker Session-, 150 call-ins
	from all major commands, agencies, and many companies and universities
6/7/2018	"Bots Brokering Beliefs & Business," Machine Learning in Science & Engineering, Pittsburgh,
	PA
5/2018	"Social Influence in Cyber Space," Sheffren Lecture, University of Davis, Davis, CA
5/2018	"Wisdom & Ignorance: Managing and Manipulating Groups through Heedful Interaction,"
3/2016	University of Waterloo, Waterloo Canada
11/2017	
11/2017	"Dynamic Network Based Assessment of Resiliency," ETH Zurich Switzerland
11/2017	"Dynamic Social Networks: Findings and Challenges," International University of Rabat, Rabat
	Morocco
10/2017	"Disinformation Campaigns," SMA Fake News Speaker Session- Disinformation in Social Media,
	120 call-ins from all major commands and agencies
10/2017	"Fake News," South Big Data Hub Speaker Session
7/2017	"Controlling Communities in Social Media," Dark Webs Panel at NASN, Washington DC
5/2017	"Dynamic Network Analysis," The Hsue-Shen Tsien International Distinguished Scientists
	Lecture Series at Jiangtong University in Xi'an
4/2017	"Health Care Trails and Care Coordination for Use with ADT Data." Pittsburgh Health Data
1,2017	Alliance – 'The Next Big Thing', Pittsburgh, PA
3/2017	"Network Analytics for Anti-Social Computing", South Big Data Hub, Data Science Roundtable
3/2017	on Anti-Social Computing: Bots, Lies, and the New Information Environment, Institute for
	1 5
2/2017	Software Research, CMU.
3/2017	"Wisdom or Ignorance: The Heedful Manipulation of Networks," Informatics Institute, University
	of Florida, Gainesville, FL
2/2017	"Dynamic Network Analysis: Health Applications," PHDL Seminar Series, University of
	Pittsburgh, PA
12/2016	"Dynamic Network Analysis and Big Data," The Coffee Hour, Department of Geography,
	Pennsylvania State University, State College, PA
11/2016	"Changing Networks Due to Terms, Twitter and Threats," Beckman Institute Lecture Series,
	University of Illinois at Urbana-Champaign, Urbana-Champaign, IL
10/2016	"Dynamic Network Analysis," Porto, Portugal
9/2016	"Future for Dynamic Networks", Future Directions in Network Sciences, Arlington, VA
3/2016	"Advances in Dynamic Network Analytics," Chinese Academy of Science, Beijing, China
3/2016	"Dynamic Network Analysis," SYSU-CMU International Joint Research Institute (JRI), Shunde,
3/2010	China
0/2015	
8/2015	"Tsunami Warning and Response Social Media System", Badung Indonesia
8/2015	"Tsunami Warning and Response Social Media System & Demo", Padang Indonesia
7/2015	"Characterizing Insider Threats Using Network Analytics," Science of Security Lablet Meeting,
	Carnegie Mellon University, Pittsburgh, PA
6/2015	"Twitter Tacking System for Hazard Sees," Hazard SEES Disaster Response Workshop,
	Pittsburgh, PA
5/2015	"Social Media Analytics- from the Arab Spring to ISIS," Human Security
	and the New Information Environment Workshop, CASL, College Park, MD
4/2015	"Dynamic Network Analysis & Global Mapping," National Research Council and NGA,
	11 0/

	w. II. Ba
4/0015	Washington DC
4/2015	"Cyber Security & Dynamic Network Methodologies," CERT, Pittsburgh, PA
11/2014	"Twitter for Disaster Planning in Padang," Hazard SEES Disaster Response Workshop,
C/2014	Pittsburgh, PA
6/2014	"Dynamic Network Analysis," Soft Power Solutions, Chantilly VA
5/2014	"Remote CBRNE Assessment using Dynamic Network Analytics," Defense Threat Reduction
5/2014	Agency, Washington DC "Social Media Analytics" ONE Demonstration Day, Arlington, VA
5/2014 4/2014	"Social Media Analytics," ONR Demonstration Day, Arlington, VA "GENNET: Dynamic High Fidelity Synthetic Social Networks," SMISC/Adams Review,
4/2014	Washington DC
4/2014	"Twitter Usage in Indonesia," with J. Pfeffer, M. Malik, P. Landwehr, and W. Wei, Hazard SEES
4/2014	Disaster Response Workshop, Pittsburgh, PA
4/2014	"Using Twitter to Track Disaster Needs and Response," with J. Pfeffer, P. Landwehr, and W. Wei,
7/2017	and M. Malik, Hazard SEES Disaster Response Workshop, Pittsburgh, PA
2/2014	"The Power of Meta-Networks for Rapid Ethnographic Assessment," Università di Lugano,
2/2011	Lugano, Switzerland
10/2013	"The Power of Meta-Networks for Rapid Ethnographic Assessment," Duke University, Raleigh-
10.2015	Durham, NC
10/2013	"A Rapid Ethnographic Assessment of Myanmar," Social Computing and Crisis in the New
	Information Age, Brussels Belgium
10/2013	"Smart De-Identification," Social Computing and Crisis in the New Information Age, Brussels
	Belgium
10/2013	"Media and State Stability: Lessons Learned," Social Computing and Crisis in the New
	Information Age, Brussels Belgium
10/2013	"GENNET: Advanced System for Synthesis of High Fidelity Social Networks to Support
	SHIELD," SMISC/Adams Review, Washington DC
9/2013	"A Global Perspective on Cyber Attacks," NSA Security Lablet, Carnegie Mellon University,
	Pittsburgh, PA
9/2013	"Multi-Source Assessment for State Stability." Minerva, Washington DC
9/2013	"Open Source Exploitation for Understanding Covert Networks," Dark Networks, USMA,
	Westpoint, NY
8/2013	"Remote Capabilities Assessment," DTRA, Springfield, VA
8/2013	"Dynamic Network Analytic Applications for Big Data," ASONAM, Niagra Falls, Canada
7/2013	"Dynamic Network Analysis: Security Applications," Creighton University, Omaha Nebraska
7/2013	"Dynamic Networks: Diffusion and Evolution," Creighton University, Omaha Nebraska
3/2013	"Social Media and BioSurveillance: Deep Dive on Dynamic Network Analysis," PACOM S&T
- /2012	2013, Honolulu, HI
7/2012	"Social Networks, Social Media, Social Change," AHFE 2012, San Francisco, CA with Jürgen
= /2 0.4 2	Ptetter.
7/2012	"Multi-Modeling and Socio-Cultural Complexity," AHFE 2012, San Francisco, CA with Geoffrey
5/2012	Morgan, Michael Lanham, Jürgen Pfeffer.
5/2012	"Dynamic Network Analysis," SOCCENT Deep Dive, SOCCENT Tampa. FL.
5/2012	"The Conversations of Every Day Life: From Trails to Networks," Vrije Universiteit, Amsterdam,
2/2012	Netherlands "Demonic Network Analysis of Conflict Situations" Known and Lastitute Conne Manne
3/2012	"Dynamic Network Analysis of Conflict Situations." Krasnow Institute, George Mason University, Fairfax, VA
2/2012	"Social Dynamics: Change in Web-Mediated Geographically Embedded Social Networks, AAAS,
2/2012	
12/2011	Vancouver, CA "Measurement & Modeling," Weak Tie Networks Workshop, Duke, Raleigh-Durham, NC
9/2011	"Dynamic Network Assessment for SNACR," OSD HSCB Open House, Arlington, VA
8/2011	"Network Dynamics," Graph Exploitation Symposium – Sensing and Sense Making, Endicot
0/2011	House, Boston, MA
7/2010	"Dynamic Network Analysis: COIN applications," Defense Science Board, COIN: ISR
6/2010	"Predicting Intentional and Inadvertent Non-compliance," IRS Research Conference, June 29-30,
0/2010	Washington, DC.
4/2010	"Individuals and Organizations: The Dynamic Networks of Conflict." Networks and Cognition
1/2010	Workshop, RPI, Troy NY
	ornonop, 111 1, 110 j 111

11/2009	"Geo-Spatial Dynamic Network Analysis", HSCB Geospatial Analysis, Modeling and Visualization Workshop.
11/2009	"Geo-Based Dynamic Network Metrics", Presented at the 2009 USACE Research and
	Development Conference, 2009 November, 17; Memphis, TN.
11/2009	"A Dynamic Network Analysis Approach to Trust", AFRL Trust Workshop, Dayton, OH.
10/ 2009	"Dynamic Network Analysis: Management and Intervention," Network Science Workshop,
	Carnegie Mellon University, Tepper School of Business, Pittsburgh, PA.
10/2009	"Multi-modeling, Meta-modeling and M&S Technology". Modeling and Simluation in Support
	of Deterrence Campaign Planning workshop. 2009 October 14 & 15; New Jersey
7/2009	"Validation and Agent-Based Models," Academy of Management Annual Meeting 2009,
	Professional Development Workshop, Applied Agent-based Modeling in Management Research
	(PDW Session 27), Chicago, IL, August 7, 2009.
6/2009	"Pattern Detection for Merchant Marine Vessel Traffic," Host, ONR Workshop, Carnegie Mellon
	University, Pittsburgh, PA. June 25-26, 2009.
4/2009	"Information & Belief Diffusion Through Social Networks: Empirically Grounded Simulation,"
1/2009	Studying Society in a Digital World Conference, Princeton, New Jersey.
3/2009	"Dynamic Network Analysis", Dynamic Networks Workshop, Venice Italy.
12/2008	"Dynamic Network Analysis: From Words to Spatio-Temporal Network Analytics," Pennsylvania
12/2000	State University, State College, PA.
12/2008	"Dynamic Networks Analysis in the Security Domain," European Conference on Intelligence
12/2000	Security Informatics 2008, Copenhagen, Denmark.
10/2008	"Provision of Services and Information to the TaxPayer: A Computational Reasoning Approach,"
10/2000	INFORMS, Washington D.C.
10/2008	"DNA-Hard Problems," Centra Tech., Washington D.C.
9/2008	"Networks and Trails," Oakridge National Labs, Knoxville, TN
5/2008	"Modeling and Simulation: State of the Art," Social-Cultural Workshop 2008, Washington D.C.
2/2008	"Identification of Human and Organizational Strengths and Vulnerabilities in C3I Structures that
2/2000	Enable or Inhibit Dynamic Decision Making," CTA ARL Meeting, Boulder, CO.
1/2008	"State of Computer Modeling of the Adversary." Defense Science Board Adversary Modeling
1/2000	Meeting, Washington D.C.
12/2007	"Trails and Networks: Analytics for Counter Terrorism," Lawrence Livermore National
12/2007	Laboratory, Livermore, CA.
11/2007	"Model Exemplar: Social Network Analysis," Strategic Multi-layer Assessment Work Shop,
11/2007	SOCOM, Tampa, FL.
10/2007	"BioWar: Validation and Forecasts related to Pandemic Influenza," International Conference on
10/2007	Complex Systems (ICCS-07), Boston, MA.
6/2007	"Managing and Disrupting Dynamic Networks," Director's Special Colloquium Talk, Argonne
0/2007	National Laboratory, Argonne, IL.
6/2007	"BioWar: Assessing the Impact of Pandemic Influenza on Cities using Multi-agent Network
0/2007	Models," The MORSS (Military Operations Research Society Symposium), U.S. Naval Academy,
	Annapolis, MD.
4/2007	"Predicting Networks," USMA Network Science Meeting, West Point, NY
3/2007	"Adversary Behavioral Modeling: Available Tools and Applications for the Warfighter,"
3/2007	Montgomery, AL, Maxwell AFB
2/2007	"Assessing Terror Networks," Computer Science, Syracuse University, Syracuse, NY.
12/2006	"Adversarial Reasoning with Networks," Maritime Strategy Options Workshop, Naval War
12/2000	College, Newport, RI.
11/2006	"Modeling Terrorist Groups as Dynamic Networks," INFORMS Conference 2006, Pittsburgh, PA.
11/2006	"Merchant Marine Analysis Using Dynamic Network Techniques," Naval Research Lab.
10/2006	"Dynamic Network Approach to the Assessment of Terrorist Groups and the Impact of Alternative
10/2000	Courses of Action, NATO Conference, Copenhagen, Denmark.
10/2006	"Multi-agent Systems and Networks," Modeling Social Dynamics Workshop, National Science
10/2000	Foundation, Washington D.C.
10/2006	"Comparative Models," Terrorism Cell Modeling Conference, Centra Tech, Washington D.C.
6/2006	"Understanding Taxpayer Behavior and Assessing Potential IRS Interventions using Multi-Agent
0/2000	Simulations," 2006 IRS Research Conference, Georgetown University Law Sch, Washington, DC.
6/2006	"Defeat Enemy Network" Roundtable, Pentagon ARL.
0/2000	Deleat Eliciny Inctwork Roundtable, Pentagon ARL.

6/2006	"Modeling IED Activity," NSF Countering IEDs Workshop, Washington D.C.
5/2006	"Dynamic Network Analysis for the Warfighter," Network Science Workshop, Washington D.C.
5/2006	"Dynamic Network Analysis Applications in Counter-Terrorism," Emory University, Atlanta, GA.
4/2006	"Social Network Analysis (SNA), a powerful social science assessment tool," Pentagon.
4/2006	"Blockmaps: Advanced visualization technology for exploring large social networks,"
4/2000	International Network for Social Network Analysis, Sunbelt XXVI, Vancouver, British Columbia,
	· · · · · · · · · · · · · · · · · · ·
1/2006	Canada.
4/2006	"Social Network Data, Given Error: Evidence for the Construction of Confidence Intervals
	Around Network Measures," International Network for Social Network Analysis, Sunbelt XXVI,
	Vancouver, British Columbia, Canada.
2/2006	"Dynamic Social Network Modeling," Cultural Preparation of the Environment at the Schafer
	Corporation; Arlington, VA.
4/2006	"Beyond Social Networks: A Dynamic Network Analysis Approach Applied to Counter
	Terrorism", Bruce H. Mayhew Memorial Lecture; Columbia, SC.
4/2006	"Dynamic Network Analysis: A Computational Approach to Counter Terrorism Analyses," UIC.
4/2006	"Visualizing and Assessing Strengths and Vulnerabilities in C3I Structures," CTAC 06, Helping
4/2000	
2/2006	Soldiers with Soldiers, University of Maryland, MD
3/2006	"Social Network Analysis in Counter-Insurgency;" Department of Behavioral Sciences &
	Leadership, USMA, West Point, NY.
2/2006	"Counter-terrorism applications of Dynamic Network Analysis," U.S. Army Research Laboratory-
	Human Research & Engineering Directorate, APG, MD.
2/2006	"Counter-terrorism applications of Dynamic Network Analysis," Seminar at Baltimore-HRDT,
	Military
11/2005	"Dynamic Network Analysis Applied to Counter Terrorism," Northwestern University
10/2005	"Dynamic and Large Scale Networks in Complex Settings," CAS Lecture, UIUC
10/2005	"Dynamic Network Analysis Applied to Counter Terrorism," Dept. of Computer Science,
10/2003	Distinguished Lecture series, UIUC
4/2005	
4/2005	"Destabilizing Terrorist Networks," Understanding Terrorist Network Organizations, Naval Post
1/2007	Graduate School, Monterrey, CA
1/2005	"Comp. Modeling of Organizational Processes," National Academies Board Meeting, California.
1/2005	"Dynamic Network Analysis," Yahoo Meeting, San Francisco, CA.
1/2005	"Computational Modeling of Organizational Processes," Columbia School of Nursing, New
	York, NY.
9/2004	"Advances in Tools for Dynamic Network Analysis", MKIDS Conference, Ft. Meade, MD.
7/2004	"Dynamic Network Analysis", Center for Army Analysis
6/2004	"Estimating Vulnerabilities in Large Covert Networks", 2004 CCRTS Evidence Based Research
	Conference.
5/2004	"A Structural Basis for Assessing Organizational Performance and Vulnerability", NYU Stern
3/2004	School of Business, NY.
2/2004	"BioWar," Bio Security Center, Washington, DC.
3/2004	
1/2004	"An integrated approach to evaluating strategic interventions in terrorist networks", Global War
0/0000	on Terrorism Tool Conference, MORS, US Naval War College Newport, Rhode Island.
9/2003	"Counter terrorism modeling," PACOM HI, Camp Smith, HI
5/2003	"Dynamic Network Analysis and Anti-terrorism", Distinguished Lecture Series, Office of Naval
	Research
4/2003	"Assessing Destabilization Strategies", AFRL/HE Speaker Series 2003, Dayton, OH
3/2003	"Inhibiting and Abetting Emergence in Complex Socio-Technical Systems" STIET Seminar,
	University of Michigan
1/2003	"Multi-Agent Modeling for Bio-Defense" Society for Simulation and Modeling," VWSIM,
1/2005	Orlando, FL.
1/2003	"BioWar" Sandia National Labs, Albuquerque, NM
1/2003	"Inhibiting Adaptation in Dynamic Networks" Sandia National Labs, Albuquerque, NM
12/2002	"Modeling Covert Networks" National Research Council Round Table on, Washington, DC.
11/2002	"Dynamic Network Analysis" National Research Council Workshop on Social Network Modeling
	and Analysis, Washington DC.
9/2002	"Cognitive Mapping" Academy of Management, Denver, CO.
9/2002	"Conflict Management" Academy of Management, Denver, CO.

3/2002	"Adaptive Teams: A Knowledge Network Approach" Naval Post Graduate School, Monterey,
	CA
3/2002	"Adaptive Organizations: A Knowledge Network Approach" Wharton, Philadelphia, PA
2/2002	"Encouraging Destabilization" SAIC, McLean VA
2/2002	"Controlling Network Change: Stopping Adaptation and Encouraging Destabilization" INSNA Sunbelt Social Network Conference, New Orleans LA
2/2002	"Adaptive Organizations: Linking Networks and Knowledge" MIT Economic Sociology Seminar
2/2002	"Designing Adaptive Technology Enhanced Teams" Information Sciences and Technology
	Distinguished Lecture Series, Penn State, College Station, PA
1/2002	"Destabilizing Networks" Society for Computer Simulation, VWSIM, San Antonio, TX
1/2002	"Destabilization of Networks Related to Terrorism" SAIC, McLean VA
1/2002	"Designing Adaptive Organizations" Rensselaer Polytechnic Institute. Troy, NY.
12/2001	"De/Stabilizing Dynamic Networks" The Cambridge Colloquium on Complexity and Social
	Networks (CCCSN), Harvard University
10/2001	"Computational Organization Science: A New Frontier" National Academy of Science, Sackler
	Colloquium on Adaptive Agents, Beckman Center, Irvine, CA
9/2001	"Impediments to Adaptation: A Social-knowledge Network Perspective" Defeating Emergence
	Workshop, SAIC, Washington DC
5/2001	"The CASOS Approach" Japanese Organizational Science Workshop, Tokyo Japan
3/2001	"Organizations as Complex Systems" Biocomplexity Conference, Beufort, NC
2/2001	"Network Based Knowledge Management and Organizational Change", University of Arizona,
	Tucson, AZ.
2/2001	"Organizations as Intelligent Complex Adaptive Systems" Arizona State University
11/2000	"Computational Organizational Models" Tutorial, International Joint Conference IBERAMIA
	2000, Sao Paulo Brazil
10/2000	"Organizational Change: A Knowledge Interaction Perspective" Marschak Colloquium, UCLA,
	Los Angeles, CA
9/2000	"Managing Change: An Interaction Knowledge Perspective", Conference on Complexity and
	Public Policy, Rand, Washington DC
8/2000	"Organizational Adaptation and ORGAHEAD", NATO Workshop, Naval Center for Applied
	Research in Artificial Intelligence, Ft. Meade, VA
8/2000	"The Value of Agent Based Models for Organizational Science", Academy of Management,
	Toronto, Canada
8/2000	"Quantitative Methods for Applying Complexity Theory to Organizations: Simulation Based
	Approaches", Academy of Management, Toronto, Canada
6/2000	"Team Analysis", Aptima, Boston MA
5/2000	"Constraint Based Adaptation in Organizations", NECSI, Nashua, NH
5/2000	"ORGAHEAD and architecture Design and Analysis", Jacobia Meeting, George Mason
	University, Washington, DC.
11/1999	"Culture as Knowledge Level Dynamics" Toward a Sociology of Culture and Cognition,
	Sociology Conference, Rutgers University
10/1999	"Agents Plus: New directions in modeling social and organizational systems" Agent Simulation
	Workshop, University of Chicago
8/1999	American Sociological Association – Didactic Seminar – Computational Analysis
7/1999	"Opening up the Black Box: Organizational Design as Dynamic Networks" The Pew Center on
	Global Climate Change 1999 Workshop on the Economics and Integrated Assessment of Climate
	Change, Washington D.C.
5/1999	"Organizational Adaptation and the Digital Economy" Digital Economy Conference, Washington
	D.C.
5/1999	"Computational Models of Change in Institutions", CIS-HDGC, CMU, Pittsburgh, PA
5/1999	"Organizations in the Next Millennium" GSIA 50th Anniversary, Pittsburgh, PA
4/1999	"On the Evolution of Social and Organizational Networks" Networks and Governance Series,
	Columbia University, New York, NY.
4/1999	"Computational Analysis of Teams." Human Centered Design Environment Workshop,
	Wintergreen, VA.
2/1999	"Computational Organizational Science" NSF CSS workshop, CA
12/1998	"Entrepreneur Profiles." Kaufman Foundation, Kansas City, Kansas

12/1998	"To Learn is Human, To Learn and Learn is Social." Complex Systems Seminar, University of
	Michigan, Ann Arbor, MI.
12/1998	"Learning in an Uncertain Environment." RPI, Troy, NY
10/1998	"A Computational Organization Theory Perspective on Modeling Organizations." Human Factors
	Society Conference, Chicago, IL
6/1998	"Examining Adaptation and Flexibility in Command and Control Architectures." Army After
6/4.000	Next, Xerox Document University
6/1998	"Learning Within and Among Organizations", Organizational Learning Conference, CMU,
<i>5</i> /1000	Pittsburgh, PA
5/1998	"Organizational Perspective." NRC report at Computer Generated Forces conference, Orlando,
4/1000	FL.
4/1998	"Organizational Adaptation: Learning and the Changing Environment." Anderson School, UCLA, Los Angeles, CA.
1/1998	"Socio-Cognitive Dynamics: Learning in an Uncertain Environment." Dept. of Sociology,
1/1990	Cornell, University, Ithaca, NY.
1/1998	"The Risk of Adaptation." Workshop on "The potential of computer simulation in the social
1/1//0	sciences" University of Surrey, Guildford, UK.
11/1997	"Modeling Organizations" Workshop on Cognitive Models in the Design and Operation of
11,100,	Complex System, CHI Systems, Baltimore, MD
10/1997	"Dynamic Organizations: Organizational Adaptation in a Changing Environment," INFORMS,
- 0 2 2 7	Dallas, TX
8/1997	"Organizational Adaptation and Cognition," Cognitive Science Conference, Stanford Univ.
8/1997	"The Knowledge Gap" Conference on Interactions-Based Models in the Social Sciences." Santa
	Fe Institute, Santa Fe, NM.
6/1997	"Adaptive Organizations: The Clash of the Learning Levels" HKUST, Hong Kong
4/1997	"Organizational Adaptation," University of Kansas, KA.
4/1997	"Computational Organization Theory," NSF ITO Workshop
3/1997	"Measuring C2 Structure" A2C2 Workshop, Williamsburg, VA
10/1996	"Intelligent Agents and Strategic Adaptation," ITESM, Monterrey Mexico
10/1996	"Modeling Intelligent Agents and Organizations," NRC - Committee on Human Behavior and
10/1007	Military Simulation
10/1996	"Organizational Annealing," Columbia University, NY.
8/1996	"Culture and Text Analysis," American Sociological Association Mtgs. New York, NY.
8/1996	"Organizational Adaptation: A Simulated Annealing Perspective," Santa Fe Institute, Santa Fe,
5/1996	NM. "Computational Organization Theory and Information Systems" INFORMS CWC on
3/1990	"Computational Organization Theory and Information Systems" INFORMS - CWC on Information Systems
2/1996	"Can Organizations Learn if They Restructure?" Cornell University, Johnson School of Business,
2/1//0	NY.
2/1996	"Computer Aided Textual Analysis" Case Western University
1/1996	"The Basis of Socialness" Special Conference in the Social Sciences, Columbia University
1/1996	"Complexity and Organizations" Informs Winter Conference, Complexity Panel, Aspen, CO.
8/1995	"Computational Sociology," American Sociological Association Mtgs. Washington D.C.
4/1995	"Advances in Computational Organization Theory," INFORMS
4/1995	"The Evolution of Organizational Forms" UCLA, Los Angeles, CA
8/1994	"VDT and Organizational Models," SantaFe Institute - Workshop on Computational Organization
	Theory
11/1993	"Organizational Shifts," George Mason University, C3I, Washington D.C.
10/1993	"MECA Applications," Annenberg School for Communication, Philadelphia, PA
10/1993	"Strategies for Communication," Annenberg School for Communication, Philadelphia, PA with
	David Kaufer
9/1993	"Artificial Organizations" Cyert Conference, CMU, Pittsburgh, PA
6/1993	"Organizational Designs Suited to High Performance Under Stress" Symposium on Command and
C/1002	Control, Washington D.C.
6/1993	"Random Graphs: Three Applications" Classification Society of North America, Annual Meeting,
	Pittsburgh, PA.

5/1993	"Artificial Social Intelligence," Invited Panel. 1993 Conference on Computing for the Social
	Sciences, National Center for Supercomputing Applications, University of Illinois at Urbana-
	Champaign
3/1993	"Next Time We Get Organized" Hurricane Conference Miami with Jack Harrald
	"MECA," International Congress on Computer Tools in the Social and Behavioral Sciences in
12/1992	
10/1000	Amsterdam, The Netherlands.
12/1992	"Organizational Learning," Gronighen, The Netherlands.
11/1992	"Comparing Approaches for Near Optimal Solutions in a Distributed Decision Making
	Environment," ORSA/TIMS, San Francisco, CA.
10/1992	"Training and Organizational Performance" Dept. of Sociology, University of Iowa, Iowa City,
	IA.
3/1992	"Co-evolution of Self and Society," Heinz Carnegie Mellon University, Pittsburgh, PA.
3/1992	"Simulating Society," University of Pittsburgh, Pittsburgh, PA.
3/1992	"Society, Culture and Technology: Toward an Integrated Theory of the Role of Communication in
	Social Change," Taft Lecture Series, University of Cincinnati, Cincinnati, Ohio.
3/1992	"Emergence of Scientific Fields," Sociology Colloquium, University of Cincinnati, Cincinnati,
5/1772	Ohio.
11/1991	"Analysis of Qualitative Data," Society for the Scientific Study of Religion, Panel on Methods,
11/1//1	Pittsburgh, PA.
10/1001	
10/1991	"Getting the Job Done," Clarkson University. Potsdam, NY. with Sara Kiesler
8/1991	"Coevolution of Structure and Culture: A Socio-Cognitive Approach," Conference on Small
0/4004	Group Behavior. Cincinnati, OH.
8/1991	"Examining Socio-Cultural Change Through Language," New Hampshire 1991 Theory Survey —
	Boundaries and Units. Enfield, NH.
5/1991	"Organizational Design and Performance," Conference on Mathematical Organizations Theory.
	Nashville, TN.
2/1991	"Social and Cultural Evolution: A Cognitive Basis for Social Change," Northwestern University.
	Chicago, IL.
1/1991	"Coordination for Effective Crisis Performance When Training Matters," Rensselaer Polytechnic
	Institute. Troy, NY.
9/1990	"The Organizational Structures Most Responsive to Crises," National Research Council Research
	Workshop on Organizational Issues in US Nuclear Policy. Oakland, CA.
8/1990	"Computer Analysis of Qualitative Data," Didactic Seminar. American Sociological Association
0. 1990	Meetings. Washington D.C.
7/1990	"Multi-Agent Soar," Special conference on AI and Organization Theory. CCSOM. Amsterdam,
771770	The Netherlands.
3/1990	"Coordinating for Success: An Examination of Organizational Learning and Performance," GSIA
3/1990	Carnegie Mellon University, Pittsburgh, PA.
0/1000	"Computer Analysis of Qualitative Data," Didactic Seminar. American Sociological Association
8/1989	
6/1000	Meetings. San Francisco, CA.
6/1989	"Organizational Learning and Personnel Turnover." NSF sponsored conference on Organizational
	Learning: Carnegie Mellon University, Pittsburgh, PA.
5/1989	"Group Stability: A Socio-Cognitive Approach," Social Relations Dept. University of California
	Irvine, Irvine, CA.
5/1989	"Simulation and Social Theory," Sociology Dept. University of California Riverside, Riverside,
	CA.
5/1989	"Predicting Interaction Using Simulation: The Tailor Shop Case," USCB Social Network
	Seminar. University of California Santa Barbara, Santa Barbara, CA.
4/1989	"The Impact of Electronic Mail on the Scientific Community: The Diffusion of Soar," McLuhan
	Program in Culture and Technology and the Faculty of Library and Information Science seminar
	series University of Toronto, Toronto, Canada.
4/1988	"The Social Sciences at CMU HandSS Program for Margaret Morrison Alumnae.
2/1988	"Electronic Mail and the Diffusion of Scientific Information," Xerox Parc. Palo Alto, CA.
12/1987	"Crisis Management and the Garbage Can Model of Organizational Choice," Red Cross and
14/170/	
	Washington Operations Research Management Science Council. MITRE Corporation,
	Washington D.C.

11/1987	"Constructuralism: Relating Social to Cognitive Structure," Sociology Dept. Colloquium. Cornell
	University. Ithaca, NY.
5/1987	"Producing Social Stability and Consensus," Sociology Dept. Colloquium. University of
	California Los Angeles. Los Angeles, CA.
5/1987	"Constructuralism: Combining Social and Cognitive Networks," Social Relations Dept.
	Colloquium. University of California Irvine. Irvine, CA.
4/1987	"Producing Social Stability," Sociology Dept. Colloquium. University of South Carolina.
	Columbia, SC.
11/1986	National Research Council, Committee on Human Factors, Workshop on Distributed Decision
	Making. Washington D.C.
3/1986	"Separating the Effect of Structure and Interaction," Stanford Business School. Stanford, CA.
5/1985	"Social Groups and Computer Mail," Network Seminar. Harvard University. Cambridge, MA.
1/1984	"Garbage Can Efficiency - A Simulation," Joint Naval Workshop on Organizations. Monterray,
	CA.
4/1984	"Relating Social Structure to Cognitive Conceptions," Social Networks Group. Harvard
	University. Cambridge, MA.
6/1977	"The Burro Problem in the Grand Canyon, A System Dynamics Model," National Park Service,
	Department of the Interior. Grand Canyon National Park, AZ.
10/1976	"CASCON: A Users Guide," MIT, Political Science. Cambridge, MA.
10/1975	"CASCON: A Users Guide," MIT, Political Science. Cambridge, MA.

CONFERENCE PRESENTATIONS

CONTENENCE	1 RESERVATIONS
2024	JTSE
2024	IEBA
2023	NetSci
2023-2024	ANSIM
2023	SAIDD
2022-23	Wintersim
2021	Informs
2021	AOM
2021	ICWSM
2020-23	IDeaS
2020-24	Minerva
2020	COVID-19 & Networks
2019	IC2S2
2019	INGroup
2019	SpringSim, Tucson AZ
2019,2022	Social Sensing
2016, 2017	TIDESPRINT
2017-19,2021	North American Social Network (NASN)
2015	HotSOS 2015, Champaign-Urbana IL
2014, 2015	Political Networks Conference
2014	Cyber Security Workshop, Boston MA
2013, 15, 16, 19-2	21 ASONAM
2013	SAMSI
2013	World Summit on Big Data and Organization Design, Paris Fr.
2013	Social Computing and Crisis in the New Information Age, Brussels Be.
2013	PACOM S&T
2012	UBICOM
2012	GEOINT
2012	Networks in a Global World Conference
2012	AAAS
2011	HSCB Open House
2011	Social Media Symposium, Ottawa, Canada
2011	Focus2011
2011	International Conference on Software Engineering
2010	IRS Research Conference
	2024 2024 2023 2023-2024 2023 2022-23 2021 2021 2021 2020-23 2020-24 2020 2019 2019 2019 2019,2022 2016, 2017 2017-19,2021 2015 2014, 2015 2014 2013, 15, 16, 19- 2013 2013 2013 2013 2012 2012 2012 2011 2011

2010	Focus2010
2009	ONR Merchant Marine Vessel Workshop
2009	Informs
2008	Second World Conference on Social Simulation
2008	National HIDTA Conference
2007	AMIA 2007 Annual Symposium
2007	Huntsville Simulation Conference (HSC)
2007	AAMAS (Autonomous Agents and Multiagent Systems)
2007	European Accounting Association Conference, Lisbon
2007-09	USMA Network Science
2015-24	SBP-BRIMS
2007, 11-13	BRIMS
2006, 2008	MORS
2006, 2007	STEP
	2-13 AFOSR/Cultural Modeling
2005, 2008	SIAM
2003, 2004	MKIDS Conference
2004, 2005	TACC-DARPA/IXO Workshop
2003-2004, 07	NAACSOS
2003	IMA Conference
2003	ORGSIM Workshop
2003	8 th International Command Symposium
2003	Institute for Mathematics Workshop
2002	Arrowhead
2001	NSF Design, Service and Manufacturing Grantees and Research Conference
2000	IBERAMIA
2000-2003	CASOS Conference
1999,2000	PITA Symposium
1999,00,02	Agents
1998	Human Factors Society
1998	AAAI Fall Symposium Series
	3,05,09,10,14 Academy of Management
1996	Informs Winter Conference
1996-05	A2C2 meetings
1993-04,07	International Symposium on Command & Control, Research and Technology (CCRTS) (was C3I)
1997	Cognitive Science
1985,87-01	American Sociological Association Meeting
	9-00,02-24 INSNA Sunbelt International Social Network Conference
1995	Association for Information Systems
1990	Hawaii International Conference on System Sciences
1990	Public Choice Meetings
1990	American Anthropological Association Meetings
1989-1990	4S
1989	International Conf. on Industrial and Crisis Management
1989	Midwestern Sociological Society Meetings
1987-1988	Eastern Sociological Association Meeting
1984,88-89,91-9	
1995-97,06-09	INFORMS
1986-90, 1992	Soar Workshop
1985	International Conf. on Artificial Intelligence and Learning
1979	Social Psychology Conference
1990-2000	Computational and Mathematical Organization Theory Workshop

SHORT COURSES AND EXECUTIVE EDUCATION

10/2024	"DNA Threat Detection," for Singapore DSO, Pittsburgh, PA
7/2024	"DNA and BEND Assessment," 29 Palms, CA

6/2024 "DNA. Networks and Social Media," CASOS Summer Institute, Pittsburgh, PA – Hybrid

2/2024	"OMEN Social Media Analytics," NAWCTSD
6/2023	"DNA, Networks and Social Media," CASOS Summer Institute, Pittsburgh, PA – Hybrid
5/2023	"OMEN Social Media Analytics," CMU - Hybrid
4/2023	"OMEN Social Media Analytics," CMU - Hybrid
2/2023	"Advanced Analytics for Online Harms in Social Media," CNFJ – Virtual
12/2022	"Advanced Analytics for Online Harms in Social Media," QRT – Virtual
11/2022	"Designing Simulations for Diffusion," DSTO, Singapore
11/2022	"BEND and Social Media," QRT trainer training – Virtual
10/2022	"Influence Campaigns," CNFJ – Virtual
10/2022	"Influence Operation Assessment," QRT training – Virtual
10/2022	"BEND and Online Harms," SBP-BRiMS, 2022
9/2022	"BEND analytics and Network Science," CNFJ – Virtual
8/2022	"Online harms – bots, hate speech, extremism: detecting and countering," CNFJ – Virtual
6/2022	"Social Influence Campaigns," IDeaS Summer Institute, Pittsburgh, PA – Virtual
6/2022	"DNA, Networks and Social Media," CASOS Summer Institute, Pittsburgh, PA – Virtual
7/2021	"BEND," SBP-BRiMS, 2021– Virtual
7/2021	"Social Influence Campaigns," IDeaS Summer Institute, Pittsburgh, PA – Virtual
6/2021	"DNA, Networks and Social Media," CASOS Summer Institute, Pittsburgh, PA – Virtual
5-6/2021	"Network Analyics for BEND," – ONR Project OMEN, EUCOM – Virtual
1/2021	"Advanced network and Social Media Analytics," Accenture Federal Systems – Virtual
12/2020	"Social Influence Campaigns," MORS Emerging Technology Forum Tutorial – Virtual
11/2020	"Social Influence Campaigns," IDeaS Institute, Pittsburgh, PA – Virtual
10/2020	"High Dimensional Networks," SBP-BRiMS, 2020 – Virtual
7/2020	"COVID-19, Synthetic Actors, and Extremism," DIA short course, CMU, Pittsburgh, PA – Virtual
6/2020	"DNA, Networks and Social Media," CASOS Summer Institute, Pittsburgh, PA – Virtual
2/2020	"Social Cybersecurity - Analysis of Social Networks for Intelligence and Defense," Army War
11/2010	College, CMU, Pittsburgh, PA
11/2019 11/2019	"Social Cybersecuity," GOL Training for Indian officials, CMU, Pittsburgh, PA "Dynamic Network Analysis," GOL Training for Indian officials, CMU, Pittsburgh, PA
10/2019	"Social Cybersecurity," Army War College
7/2019	"Understanding Disinformation Campsigns," SBP-BRiMS, 2019, Washington DC
6/2019	"From Texts to Networks to Maps," INSNA Sunbelt XXXIX, Montreal, CA
6/2019	"DNA. Networks and Social Media," CASOS Summer Institute
9/2018	"Social Media Analytics," CMU Training for 2MEF, Pittsburgh, PA
7/2018	"From Texts to Maps," SBP-BRiMS, 2018, Washington DC
7/2018	"From Texts to Maps," INSNA Sunbelt XXXVIII, Utrecht, Netherlands
6/2018	"DNA. Networks and Social Media," CASOS Summer Institute
2/2018	"Dynamic Network Analytics for Cyber Security," Army War College
11/2017	"Introduction to Social Network Analysis for Social Media," International University of Rabat,
11.2017	Morocco
7/2017	"Dynamic Network Analysis for Intelligence & Security," Institute for Strategic Analysis,
	Washington, DC
7/2017	"DNA & ORA," North American Social Network Meeting, Washington, DC
7/2017	"Social Influence and Groups in Twitter," SBP-BRiMS, Washington, DC
7/2017	"Geo-Temporal Network Visualization," SBP-BRiMS, Washington, DC
6/2017	"DNA, Networks and Simulation," CASOS Summer Institute
5/2017	"DNA & ORA," INSNA Sunbelt XXXVII, Beijing, China
4/2017	"Social Media Analytics Using ORA," STRATCOM Center of Excellence, Riga, Latvia
2/2017	"Dynamic Network Analytics for Cyber Security," Army War College
10/2016	"Network Science and Social Network Reasoning," Executive Short Course on Decision Science,
	Risk and Network Analysis, ISA, Washington DC
9/2016	"Twitter System for Tsunami Warning & Demo," IOWAVE 2016 Conference, Padang Indonesia
8/2016	"Social Media Analytics in ORA," Ft. McNair, Washington DC
6/2016	"Identifying Covert or Hidden Groups in Twitter," SBP-BRiMS 2016, Washington DC
6/2016	"Network Analytics in ORA," SBP-BRiMS 2016, Washington DC
6/2016	"DNA, Networks and Simulation," CASOS Summer Institute

5/2016	"Network Science and Social Network Reasoning," Executive Short Course on Decision Science,
	Risk and Network Analysis, ISA, Washington DC
4/2016	"DNA & ORA," INSNA Sunbelt XXXVI, Newport Beach, USA
8/2015	"DNA & Disaster Management," ITB PEER students, Padang Indonesia
8/2015	"Bot Detection in Social Media: Networks, Behavior, and Evaluation," ASONAM 2015
7/2015	"DNA, Networks and Simulation," CASOS Summer Institute
6/2015	"Dynamic-network analysis and *ORA", INSNA Sunbelt XXXV, Brighton UK
4/2015 4/2015	"Social Network Analysis for Science of Security," HotSOS, Urbana-Champaigne, IL
	"DNA, Networks and Simulation," SBP-BRiMS 2015, Washington DC
7/2014	"Dynamic-network analysis", CMU Executive Education
6/2014	"DNA, Networks and Simulation," CASOS Summer Institute
8/2013	"Network Analytics," ASONAM, Niagra Falls, NY, USA
7/2013	"AutoMap and ORA," Training Course, Creighton University, Omaha Nebraska
6/2013	"DNA, Networks and Simulation," CASOS Summer Institute
6/2012	"DNA, Networks and Simulation," CASOS Summer Institute
5/2012	"Dynamic Network Analysis," Master's Course, Vrije Universiteit
3/2012	"Dynamic Network Analysis," 2012 International Conference on Social computing, Behavioral -
	Cultural, Modeling and Prediction (SBP12), Hyattsville, MD
3/2012	"Relational Text Analysis and Network Analysis: From AutoMap to ORA," INSNA Sunbelt
	XXXII
3/2012	"Dynamic Network Analysis (DNA) and *ORA," INSNA Sunbelt XXXII
3/2012	"Network Dynamics, Simulation and Construct," INSNA Sunbelt XXXII
10/2011	"Network Analysis." USMA, Westpoint, NY
7/2011	"Dynamic Network Analysis," Lipari Summer School, Lipari Italy
6/2011	"DNA, Networks and Simulation," CASOS Summer Institute
6/2010	"Dynamic Network Analysis," ISSH, New York, NY
6/2010	"DNA, Networks and Simulation," CASOS Summer Institute
	"DNA and SORASCS," Pacific Science and Engineering, Pittsburgh, PA
11/2009	
10/2009	"Dynamic Network Analysis," Tampa, FL
9/2009	"Dynamic Network Analysis," Ft. Monmouth, NJ
7/2009	"Socio-technical systems as networks: Representation and analysis," DRDC Center for Security
<i>(</i> / 2 000	Science, Ottawa, CA
6/2009	"Networks and Simulation," CASOS Summer Institute
6/2008	"Networks and Simulation," CASOS Summer Institute
5/2008	"Dynamic Network Analysis," USMA
6/2007	"Networks and Simulation," CASOS Summer Institute
4/2007	"Dynamic Network Analysis," CIA
4/2007	"Dynamic Network Analysis," NDIC
3/2007	"Dynamic Network Analysis," CIA
8/2006	"Dynamic Network Analysis," Army Research Labs
6/2006	"Networks and Simulation," CASOS Summer Institute
9/2005	"Dynamic Network Analysis," Aerospace Corporation
6/2005	"Networks and Simulation," CASOS Summer Institute
11/2004	"Organizational Security," University of Pittsburgh
6/2004	"Networks and Simulation," CASOS Summer Institute
1/2003	"Dynamic Network Analysis," Sandia National Labs
6/2003	"Networks and Simulation," CASOS Summer Institute
5/2002	"E-government: A Security Perspective," Korean Executive IT Policy Program
6/2002	"Networks and Simulation," CASOS Summer Institute
11/2001	"Computational Modeling for Organizations," CIO Institute
6/2001	"Networks and Simulation," CASOS Summer Institute
11/2000	·
11/2000	"Computational Organizational Models," Tutorial, Int. Joint Conference IBERAMIA 2000, Sao
7/2000	Paulo Brazil "Acquiring Tooit Vnowledge," CIO Institute
7/2000	"Acquiring Tacit Knowledge," CIO Institute "Networks and Simulation" CASOS Symmetry Institute
6/2000	"Networks and Simulation," CASOS Summer Institute
4/2000	"Computational Social Science," INSNA Sunbelt Meeting
4/2000	"Networks and Information Security," Merril Lynch

4/2000	"Dynamic Organizations: Organizational Adaptation in a Changing Environment" CIO Institute
8/1999	"Computational Social Science," Didactic Seminar. American Sociological Association. San
	Francisco, CA.
6/1999	"Networks and Simulation," CASOS Summer Institute
1/1997	"Network Based Text Analysis," Universite' Leonardo DaVinci
2/1996	"Computer Aided Textual Analysis" Case Western University
8/1990	"Computer Analysis of Qualitative Data," Didactic Seminar. American Sociological Assoc.
	Washington D.C.
8/1989	"Computer Analysis of Qualitative Data," Didactic Seminar. American Sociological Assoc. San
	Francisco, CA.

EDITORIAL ACTIVITIES

2013-2017	IEEE Transactions on Network Science and Engineering — steering committee
2014-	IEEE Transactions on Computational Social Systems — Associate Editor
2010-	Social Network Analysis and Mining — Editorial Board
1999-	Field Methods — Editorial Board
1997-	Journal of Artificial Societies and Social Simulation — Editorial Board
1995-	Computational and Mathematical Organization Theory — Founding Co-Editor
1999-2007	Journal of Social Structure — Editorial Board
1998-2000	Journal of Cognitive Systems — Editorial Board
1997-1999	Structural Analysis: A Journal of Theory and Applied Research — Editorial Board
1996-1999	Organization Science — Special Issue on Complexity — Guest Co-Editor
1995-1999	Management Science — Associate Editor
1995-1998	Sociological Methodology — Editorial Board
1994-1996	The Journal of Mathematical Sociology — Editorial Board
1994-1997	Inter. Journ of Intelligent Systems in Accounting, Finance & Management — Editorial Board
1994-1998	Sociological Methods and Research — Editorial Board
1994-1996	Sociological Methods and Research — Guest Editor for special issue on AI and Sociology
1994-1996	The Journal of Mathematical Sociology — Guest Editor, SI on Computational Org. Theory
1993	Inter. Journ of Intelligent Systems in Accounting, Finance & Management — Guest Co-Editor for
	SI on Mathematical & Computational Models of Organizations: Models & Characteristics of
	Agent Behavior
1989-1994	Information and Decision Technologies — Associate Editor

REVIEW ACTIVITIES

Academy of Management Review	Journal of Artificial Societies and Social Simulation
Accounting, Management, and Information	Journal of Social Structure
Technologies	Management Science
Administrative Science Quarterly	NATO
Air Force	Nature
American Journal of Sociology	NSF
American Sociological Review	Office of Naval Research
American Sociologist	Operations Research
Applied Behavioral Science Review	Organization Science
Army Research Office	Organizational Behavior and Human Decision
BRiMS	Processes
Computational & Mathematical Organization Theory	PNAS
Idaho Science Board	Poetics
IEEE Engineering Management	SBP
IEEE Systems Man and Cybernetics	SBP-BRiMS
IEEE Transactions on Computational Social Systems	Science
Industrial and Corporate Change	Social Forces
Information and Decision Technologies	Social Networks
International Journal of Intelligent Systems in	Social Psychology Quarterly
Accounting, Finance and Management	Sociological Methodology

Sociological Methods and Research Sociological Perspectives Stanford University Internal Grants Structural Analysis: A Journal of Theory and Applied Research Technology Studies The Journal of Mathematical Sociology

PROFESSIONAL ACTIVITIES

	AL ACTIVITIES
2024	IEBA Participant
2023	TTCP Participant
2023	OMEN FT1B Assessment, Camp Smith, Honolulu, Hawaii
2023	OMEN FT1A Assessment, Camp Pendelton, San Diego, CA
2023	PIPP Workshop Chair – Online-Offline linkages
2022-2023	SBP-BRiMS 2023 Conference Chair
2022-2023	OMEN QRT to Assess BEND Analytics, Camp Pendelton, Camp Smith, DC
2021-	ORNL Scientific Review Board
2021-	Hi-Paris, Scientific Advisory Board – Paris AI for Society, Institut Polytechnique de Paris
2020	ETH Zurich Review Panel
2020	Military Perspectives on COVID-19 Disinformation, Virtual Specialist Meeting by the Human
	Factors and Medicine Research Task Group, Conference Moderator
2021-2022	SBP-BRiMS 2022 Conference Chair
2020-2021	SBP-BRiMS 2021 Conference Chair
2019-2020	SBP-BRiMS 2020 Conference Chair
2019	Baltops 2019 Remote Support Cell Participant
2019	Computational Cybersecurity in Compromised Environments (C3E) Participant
2019	NSF Social Cyber-Security and Disinformation Workshop - Chair
2019	ONR Strategic Conversations: Online Information Warfare Today – Co-Chair
2019	DoD Future Directions Workshop on Social Science Participant
2018	Trident Juncture 2018 Remote Support Cell Participant
2018	LOE2 NATO 2018 Participant
2017	Trident Joust 2017 Participant
2017	CCC Cyber Security Workshop Member
2017-	South Big Data Hub Social Cyber Security Working Group – Co-Chair
2017-2019	NRC Panel Member, Decadel Study
2018-2019	SBP-BRiMS 2019 Conference Chair
2017-2018	SBP-BRiMS 2018 Conference Chair
2016-2017	SBP-BRiMS 2017 Conference Chair
2015-2016	SBP-BRiMS 2016 Conference Chair
2014-2016	NRC Panel Member, "Models of the World"
2013-2016	NRC Panel member, ARL review
2013-2017	Steering Committee and Advisory board IEEE Network Sciences Group
2012-2014	DHS Homeland Security Science and Technology Advisory Committee
2012-2013	NRC Panel member, "Math Digital Library"
2010-2013	NRC Panel member, "NGA Workforce Evaluation"
2010-2013	NRC Panel member, "Massive Data Analysis"
2008-2009	NRC Committee for "Applications of Social Network Analysis for Building Community Disaster
	Resilience: A Workshop"
2007-2008	Task Force Member for Defense Science Board: Human Behavioral Modeling
2007-2008	GIST, Stratcom, Task Force Member
2005-2006	NRC Panel member; Modeling and Simulation for Defense Transformation
2005-2006	NRC Panel member; Organizational Models: From Individuals to Societies
2005-2006	NRC Panel member; Defense Modeling and Simulation
2002-2004	Founding President of the North American Association of Computational Social and
	Organizational Systems
2002	Panel member for SAIC group on terrorism, Project MacDuff.
2001	Panel member for Threat Anticipation Workshop, DTRA Advanced Systems and Concepts Office
2001	Panel member for Defeating Emergence Workshop, SAIC

2001	NSF Workshop on Converging Technology (NBIC) for Improving Human Performance
1999-2005	Organizer of Annual CASOS Summer Institute
1999-2002	Annual Conference Co-organizer of CASOS Conference (formerly CMOT)
1999-2000	ICMAS Program Committee for ICMAS 2000
1999-2000	President of the Mathematical Sociology Section of the American Sociological Association
1998-1999	President Elect of the Mathematical Sociology Section of the American Sociological Association
1997-1998	Panel member for NAS/NRC special meeting on Population
1996-1998	Member NSF Advisory Panel for Sociology
1996-1998	Member of the NAS/NRC Committee on Human Behavior and Military Simulation
1996-1997	NSF ITO Steering Committee
1996	Workshop Organizer and Presenter — CCOR Workshop on Modeling Organizations
1996	Co-organizer Festschrift for Harrison White
1990-2000	Co-organizer of Social Network Seminar Series (3 Rivers Network), Carnegie Mellon University
	and University of Pittsburgh
1990-2000	Co-organizer of Bi-Weekly Groups and Organizations Seminar (GO), Carnegie Mellon University
	and University of Pittsburgh
1993-1999	Conference Co-Organizer — Annual Computational and Mathematical Organizations Theory
	Workshop (INFORMS [ORSA/TIMS])
1991-1993	Conference Co-Organizer — Annual Mathematical Organizations Theory Workshop
1,,,1 1,,,0	(ORSA/TIMS)
1995-1996	Member of the Nominations Committee for the American Sociological Association Meeting
1994-1995	Member of the Membership Committee for the Occupations and Organizations Section for the
1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	American Sociological Association
1994-1995	President of the Sociology and Computers Section of the American Sociological Association
1993-1994	President elect of the Sociology and Computers Section of the American Sociological Association
1993-1994	Board member for the AAAS/ABA National Conference
1993-1994	Newsletter Editor for ORSA/TIMS College on organizations
1993-1994	Session Organizer — Social Cognition and Networks — International Network for Social
1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Network Analysis
1993-1993	Conference Co-Organizer — Textual Analysis Workshop
1991-1992	Conference Co-Organizer — Advances in Social Theory
1991-1992	Conference Organizer — Group Processes Conference (ASA)
1991-1992	Session Co-Organizer — Scientific Networks — Sunbelt International Social Network Conference
1991	Steering Committee for "International Consortium on Network Research" — CMU Representative
1990-1991	Conference Organization Committee — New Hampshire 1991 Theory Survey — Boundaries and
1,,,0 1,,,1	Units
2/1991	Session Chair — Networks in Science — Sunbelt International Social Network Conference
1990-1991	Organizer — Section on Micro-computing: Computer-Assisted Research — American
1,,,0 1,,,1	Sociological Association Meeting
9/1990	National Research Council, Committee on Contributions of Behavioral and Social Science to the
J/ 1770	Prevention of Nuclear War. Workshop on Organizational Issues in U.S. Nuclear Forces, Oakland,
	CA.
1989-1990	Organizer — Regular Session. Social Networks: Advances in Methodology — American
1,0,1,,0	Sociological Association Meeting
1989-1990	Organizer — Regular Session. Social Networks: Network Dynamics and Organizations —
1707 1770	American Sociological Association Meeting
1989-1990	Program Committee — Microcomputing Section — American Sociological Association
1986	National Research Council, Committee on Human Factors, Workshop on Distributed Decision
1700	Making. Challenger. Washington D.C.
7/1989-6/1990	Board of Trustees of the Operations Research Society of America/Social Sciences Applications
,. 1707 0/1770	Special Interest Group
	aparama military Group

PROFESSIONAL MEMBERSHIPS

2023- Asia-Pacific Artificial Intelligence Association

2006- ACM 2006- IEEE

2003-2010 North American Association for Computational Social and Organizational Systems (NAACSOS)

1998-	Academy of Management
1994-	INFORMS [ORSA/TIMS]
1993-	AAAS
1989-1990	ORSA Social Sciences Applications — Special Interest Group
1988-	Sigma XI
1987-1990	Eastern Sociological Association
1985-	International Network for Social Networks Analysis
1980-	American Sociological Association

THESES SUPERVISION

CARNEGIE MELLON UNIVERSITY: PH.D. THESIS — ADVISOR

CARNEGIE MELLON UNIVERSITY: PH.D. THESIS — ADVISOR				
1/2025-	Danielle Bellutta (S3D)			
4/2024-	Ian Kloo (S3D)			
4/2024-	Mathew Hicks (S3D)			
2/2024-	Christine Lepird (S3D)			
2/2024-	Catherine King (S3D)			
9/2023-	Lynnette Ng (S3D)			
4/2023-	Charity Jacobs (S3D)			
2/2023-5/2024	Isabel Murdock (ECE) with Osman Yagan			
1/2023-5/2024	Joshua Uyheng (S3D)			
7/2022-5/2023	Janice Blane (S3D)			
5/2022-5/2023	Thomas Magelinski (S3D)			
10/2021-5/2022	Jeremy Straughter (ISR)			
5/2021-7/2022	Ramon Villa-Cox (ISR)			
12/2020-8/2022	Geoff Dobson (ISR)			
3/2020-5/2021	Mihovil Bartulovic (ECE)			
11/2019-3/2021	Aman Tyagi (Engineering and Public Policy)			
8/2019-5/2020	Binxuan Huang (ISR)			
6/2019-8/2020	Iain Cruickshank (ISR)			
5/2019-5/2020	David Beskow (ISR)			
1/2019-5/2020	Sumeet Kumar (ISR)			
6/2016-5/2017	Matthew Benigni (ISR)			
12/2015-12/2016	Wei Wei (ISR)			
5/2015-8/2016	Kenneth Joseph (ISR)			
2/2015-5/2022	Geoffrey Morgan (ISR)			
12/2014-5/2016	William Frankenstein (Engineering and Public Policy)			
4/2014-5/2015	Ghita Mezzour (ECE & ISR) with L. Richard Carley			
9/2013-N/A	Peter Landwehr (ISR)			
1/2013-5/2015	Michael Lanham (ISR)			
12/2011-1/2013	Eric Daimler (CMU-self defined) with Jim Morris			
10/2012-8/2013	Miray Kas (ECE) with L. Richard Carley			
8/2010-N/A	Brian Hirshman (ISR)			
7/2010-12/2012	Jana Diesner (ISR)			
6/2010-5/2014	Rob Behrman (Engineering and Public Policy)			
9/2009-1/2012	George Davis (ISR)			
3/2009-5/2014	Terrill Frantz (ISR)			
3/2008-5/2012	Marcus Louie (Engineering and Public Policy)			
2/2008-5/2009	Victoria Yuhas-Hill (Engineering and Public Policy)			
3/2008-5/2009	Patrick Wagstrom (ISR and EPP)			
3/2008-5/2009	Ian McCulloh (ISR)			
11/2007-8/2008	Il-Chul Moon (ISR)			
1/2007-1/2008	Marcelo Cataldo (ISR) with Jim Herbsleb			
5/2006-5/2007	Mike Ashworth (ISRI)			
1/2006-1/2007	Edoardo M. Airoldi (ISRI) with Steve Feinberg			
6/2005-9/2006	Craig Schreiber (ISRI)			

0/2004 10/2006	AL WALL GODD
	Alex Yahja (ISRI)
10/2004-6/2005	
7/2004-6/2005	Maksim Tsvetovat (ISRI)
1/2000-5/2008	Ju-Sung Lee (Social and Decision Sciences)
8/2001-8/2003	Li-Chiou Chen (Engineering and Public Policy)
1/2000-5/2003	Eleanor Lewis (Social and Decision Sciences) NSF Dissertation Award, Simon Award
6/2000-5/2002	Carter Butts (Social and Decision Sciences) NSF Dissertation Award, Simon Award
1/2000-8/2001	Bonnie Brinton Anderson (H.J. Heinz III School of Public Policy and Management)
9/1997-12/2000	1 6
10/1998-5/1999	1 (
2/1997-12/1999	,
5/1996- 5/1999	Brian Butler (Graduate School of Industrial Administration)
9/1995-12/1998	
6/1995-5/1998	Diana Gant (Social and Decision Sciences)
5/1997-5/1998 1/1995-12/1997	Sumit Chowdhury (H.J. Heinz III School of Public Policy and Management)
9/1990-5/1994	
9/1990-3/1994	Zhiang Lin (H.J. Heinz III School of Public Policy and Management)
C (p) ===================================	Consumer Manager Day D. Transpara Consumer Manager
	ELLON UNIVERSITY: PH.D. THESIS — COMMITTEE MEMBER
6/2023-8/2023	Sakthi Kumar Arul Prakash (Mech)
1/2012-1/2013	Lyndsey Schutte (Bio)
9/2008	Yun Shang Chiou (Architecture)
4/2010-12/2010	
1/2005-5/2007	Carol Frieze (SCS)
1/2005-5/2006	Brad Malin (ISRI)
5/1998-5/2001 8/1996-6/2000	Neil Strachan (Engineering and Public Policy) Rangaraj Ramanujam (Graduate School of Industrial Administration)
12/1997-5/1999	
5/1997-10/1998	• • • • • • • • • • • • • • • • • • • •
11/1997	Kung-Jen Tu (School of Architecture)
9/1994-12/1996	
9/1994-5/1995	William Wescott (Engineering and Public Policy)
8/1989-5/1990	Michael Palmquist (English)
5/1989-12/1990	
5/1988-5/1990	Paul Zahray (Engineering and Public Policy)
5/1986-5/1989	Stuart Shapiro (History)
Non CMU: P	H.D. THESIS — ADVISOR OR COMMITTEE MEMBER
8/2022-8/2024	David Mortimer (NPS)
8/2023-12/2023	Raha Moraffah (Arizonia State University)
3/2022-5/2024	Kelly Claborn (Arizonia State University)
2/2021-	Daniela Stefan (University of Bucharest, Romania)
1/2021-12/2021	
9/2020-	Serena Purdy (University of Toronto) (main advisor)
9/2020-1/2022	Imane Khaouja (Morocco)
12/2018-9/2019	
	Felicia Natalia (Singapore University)
	B Larry Lin (Singapore University)
	Fred Morstatter (Arizonia State University)
6/2014-5/2015	Angela Burth (University of Phoenix)
6/2014-6/2015	Shauhrat S. Chopra (University of Pittsburgh)
6/2013-N/A	Alla G. Khadka (University of Pittsburgh)
1/2011-8/2012	Luke Gerdes (University of Pittsburgh)
3/2009-1/2011	Ben Nye (University of Pennsylvania)
6/2010-	Nadazda Ivanova (Penn State University)
5/2007-12/2009	Tom Haase (University of Pittsburgh, GSPIA)

6/2022-

1/2022-9/2024

1/2011-4/2014

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5/2008-3/2009
                Aliaksandr Birukou (Trento University, Italy)
                Alexei Sharpanskykh (Vrije Universiteit Amsterdam, Artificial Intelligence, Amsterdam)
8/2007-12/2008
5/2005-5/2006
                Jerry Kane (Emory University, Goizueta Business School)
8/2006-8/2007
                Hyung Sam Park (University of Pittsburgh, Sociology)
                Mark Hoogendoorn (Vrije Universiteit, Artificial Intelligence, Amsterdam)
9/2006-6/2007
                Charles Lebedz (Boston College, Business)
9/2004-12/2006
                Tom Clancy (The University of Iowa College of Nursing)
5/2005-5/2006
                James Hazy (The George Washington University)
9/2002-1/2004
9/1998-5/2002
                Casey Rowe (University of Pittsburgh, Accounting - Katz,)
                Kayo Fujimoto (University of Pittsburgh, Sociology)
11/2003
                Kari (Kelton) Chopra (RPI, Decision Sciences and Engineering Systems)
10/1998-8/2001
9/1999-8/2000
                Sucheta Nadkarni (University of Kansas, Business)
                Junalux Chalidabhongse (Stanford, Engineering-Economic Systems & Operations Research)
4/1998-5/1999
11/1993-5/1996
                Manju Ahuja (University of Pittsburgh, Joseph M. Katz Graduate School of Business)
8/1989-8/1991
                Neda Saburi (American University, Washington D.C., Sociology)
CARNEGIE MELLON UNIVERSITY: PRE-PH.D. THESIS SUPERVISION
                Kang Ni "Bianca" Ying (S3D)
9/2024-
9/2024-
                Jeongieun "Jake" Shin (S3D) (previously ECE)
9/2023-
                Jacob Shaha (S3D)
                Rebecca Marigliano (S3D)
9/2023-
9/2022-8/2024
                Zhifei Jin (S3D)
                Matthew Hicks (S3D)
9/2022-4/2024
9/2022-4/2024
                Ian Kloo (S3D)
7/2022-4/2024
                Wenjia Hu (HCII)
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1/2022-9/2022 Yurun Tian (ECE)

Peter Carragher (S3D) Jake Shin (ECE)

8/2021-Samantha Phillips (EPP/S3D) Evan Williams 8/2021-Ravi Belleram (ISR) 8/2021-12/2021 Charity King (S3D) 8/2021-4/2023 Isabel Murdock (ECE) 9/2020-2/2023 Janice Blane (S3D) 9/2020-7/2022 Lynnette Ng (S3D) 9/2020-9/2023 1/2020-12/2022 JD Moffett (S3D) Catherine King (S3D) 9/2019-2/2024 Daniele Bellutta (S3D) 9/2019-1/2025 9/2019-5/2022 Jeremy Straughter (ISR) 9/2018-1/2022 Joshua Uyheng (S3D) 9/2018-2/2024 Christine Sowa Lepird (S3D) 9/2018-Luke Osterritter (S3D /SEI) Mihovil Bartulovic (ECE) 12/2017-4/2020 David Beskow (ISR) 8/2017-5/2019 Iain Cruickshank (ISR) 8/2017-6/2019

Thomas Magelinski (ISR) 8/2017-5/2022 Ramon Villa Cox (ISR) 8/2016-6/2021 Sumeet Kumar (ECE/ ISR) 10/2015-1/2019 Binxuan Huang (ISR) 8/2015-8/2019 Geoff Dobson (ISR/SEI) 8/2015-12/2020 Jonathan Lakey (Heinz) 6/2015-9/2015 9/2014-6/2016 Matthew Benigni (ISR) 9/2014-12/2015 Tanmay Sinha (LTI) 9/2011-12/2014 William Frankenstein (EPP) Nelson Vega-Moya (ISR) 9/2011-5/2013 9/2011-8/2013 Dennis Chung (ISR)

Ghita Mezzour (ISR)

```
9/2010-12/2015 Wei Wei (ISR)
9/2010-5/2015
                Kenneth Joseph (ISR)
9/2009-2/2015
                Geoffrey Morgan (ISR)
9/2006-9/2008
                Ian McCulloh (ISR)
                Peter Landwehr (ISR)
9/2007-9/2013
9/2007-9/2012
                Jamie Olson (ISR)
```

CARNEGIE MELLON UNIVERSITY: MASTERS THESES — ADVISOR

8/2019-8/2020 Shahan Ali Memon (LTI) 4/2017-5/2018 Adam Tse (INI) 4/2012 Ang Li (INI)

9/2011-8/2012 Junier Oliva (ECE) Marcelo Cataldo (INI) 9/1998-5/2000

CARNEGIE MELLON UNIVERSITY: MASTERS – NO THESIS

6/1/2022-12/2022Abdullah Ahmad (Heinz) Anthony Perry (IPS) 9/2021-8/2022 Joseph Bunyard (ISR) 9/2020-5/2021 9/2020-5/2021 Caroline Sears (ISR) 9/2020-5/2021 Ramesh Nagarajah (ISR) Adya Danaditya (ISR) 9/2020-5/2021 9/2020-5/2021 Jisub Lim (ISR) 1/2020-5/2020 Linda Ortenza (Heinz)

11/2016-12/2017 John Villarraga (Chemical Engineering)

8/2016-5/2018 Adam Tse (MITS) 8/2016-8/2017 Shivam Gupta (MITS) Tanmay Sinha (LTI) 12/2015 12/2013 Jesse St. Charles (ISR) Kenneth Joseph (ISR) 5/2012 5/2012 Wei Wei (ISR)

Michael Lanham (ISR) 5/2012 9/2009-5/2011 Yi Chang (Greg) (LTI) 8/2010 Virginia Bedford (ISR) Peter Landwehr (ISR) 5/2010 Ian McCulloh (ISR) 5/2009 Jana Diesner (ISR) 12/2007 5/2008 Terrill Frantz (ISR) Brian Hirshman (ISR) 5/2008 5/2007 George Davis (ISRI) 5/2006 Michael Ashworth (ISRI) 5/2006 Marcelo Cataldo (ISRI) 5/2006 Il-Chul Moon (ISRI) 5/2006 Patrick Wagstrom (EPP)

CARNEGIE MELLON UNIVERSITY: UNDERGRADUATE HONORS THESES — ADVISOR

9/2022-5/2023 Erica Chang (CS) — Baseline Assessment 9/2020-5/2021 Sydney Zheng (CS) — Pith: A Space for Productive Discussion (CS) 6/2018-5/2019 Xinye (Joyce) Wang — Op-Eds in an era of Social Media (topic) (CS) Joseph Gibli — Refugee Networks (topic) (Statistics) 11/2016-1/2018 6/1998-5/1999 Don Hoag — Organizational Change and Personnel Mobility (topic) (Heinz) 8/1993-5/1994 Seth Halvaksz — Organizations of Soar Agents (topic) (SDS) Constantine Papageorgiou — Radar Soar (topic) (CS) 6/1992-12/1992 5/1990-5/1991 Nicholas Louitt — Software Engineering Teams (topic) (SDS)

Thomas Dale — Robots in Science Fiction (topic) (SDS) 5/1990-5/1991

9/1987-5/1988 Eric Gold — Diffusion and Organizational Structure (SDS)

9/1987-5/1988 Shep Bostin — CompuSpace - Expert System for Emergency Room Planning (SDS)

9/1986-5/1987	Joseph Stone — EXNET Expert system for entering societal description (SDS)
9/1986-5/1987	Frank Venturella — Cognitive Structure in Political Debates (SDS)
9/1985-5/1986	Mary Gaylord — Structure of programming and technical writing. — Unfinished (SDS)
9/1985-5/1986	Jennifer Kubitz — Transition to Andrew and education at CMU (topic) (SDS)
9/1985-5/1986	Joanne Power — Knowledge Acquisition and Social Interaction Patterns (SDS)

NON CMU: PRE-PH.D. THESIS SUPERVISION

1 . O O	12 1102 (1112515 5 0 1 211 / 1510 1)
8/2016-7/2017	Felicia Natalia — LARC, Singapore
8/2015-7/2016	Larry Lin — LARC, Singapore
1/2001-3/2001	Jana Diesner — Germany
1/2000-8/2000	Luigi Proserpio — Italy
8/1994-12/1997	Harko Verhagen (The Netherlands) Equivalent of Masters Thesis.
9/1982-6/1983	Scott Sangster — Proposition 2 and 1/2. Harvard University (Advisor)
9/1983-6/1984	Pam Puzinas — Modeling the impact of voter registration on voting behavior. Harvard University
	(Reader)
9/1981-6/1982	Jeff Leit — The effects of TV viewing. Harvard University (Reader)

PH.D. ADVISORS

Harrison White (Co-Chair) Columbia University Deceased Sheldon White (Co-Chair) Deceased James Davis University of Chicago Deceased John Padgett University of Chicago Roger Brown Harvard Deceased

NON-CMU COLLABORATORS (LAST 4 YEARS)

Nitin Agarwal, University of Arkansas, Little Rock;

Samer Al-Khateeb, University of Arkansas, Little Rock;

Mihovil Bartulovic, Netanomics;

Matthew Brashears, University of South Carolina;

Annetta Burgher, ORNL;

Jacqueline Burgette, University of Pittsburgh;

Gian Maria Campedelli, Italy;

Alison Culyba, University of Pittsburgh;

Adam Dalton, IHMC;

Bonnie Dorr, IHMC;

Terrill Frantz, Harrisburg University;

Kenny Joseph, University at Buffalo;

Carrick Longley, Zenithflow;

Eric Malloy, Netanomics;

Geoffrey Martin, Netanomics;

Brodie Mather, IHMC;

Elizabeth McGhee-Hassrick, Drexel;

Jonathan Morgan, Netanomics;

Fred Morstatter, USC-ISI;

Mark Orr, University of Virginia;

Gordon Pennycook, University of Regina Canada;

Peter Pirolli, IHMC;

Serena Purdy, University of Toronto;

Aryn Pyke, USMA;

Jonathan Storrick, Netanomics;

Tomek Strzalkowski, RPI;

Kenton Thiabut, DFR Labs Atlantic Council;

Robert Thomson, USMA;

Camber, Warren, NPS;

Gavin Xu, DFR Labs Atlantic Council;

Zach Yenchick, Netanomics;

CONSULTING

2020-2023 Accenture Federal Wright University 2018-2020 2016-2020 Drexel University 2014 Blue Shield 2011 Centra

2009-2019 Columbia University 2005-2006 Global Info Tek, Inc.

2005-2006 New York School of Medicine

2005 DyNaTech 2004-2007 HumRo

ALPHATECH (now BAE) 2003-2004

2003 Sandia

2002-2003 Booze Allen Hamilton 2002-2004 Nursing School, ASU

1998-2005,2009-10 Aptima Merrill Lynch 3/2000

10/1998-12/1998 Kaufmann Foundation Charles River Analytics 3-7/1997,2003-06

Mellon Bank 6/1995,5/1998

5-7/1994,10-12/1994 American Red Cross — Initial Response Crisis Management Training Seminar Center for Strategic Decision Research — Org. Structure for R&D Funding Thomson, Rhodes and Cowie, Pittsburgh, PA — IS 5/1989-2/1990

4/1987-10/1987

School for English as a Foreign Language, Harvard University — IS 6/1982-8/1984 6/1983 Metametrics Corporation, Carlisle, MA — Statistical Consultant

12/1981-8/1984 Harvard University — Programmer/Consultant