

Dr. David S. Hachen Jr.

January 2024

Associate Professor
Department of Sociology
University of Notre Dame

Phone: (574) 631-5745
dhachen@nd.ed

Education

1974 B.A. – Political Science and Philosophy Lake Forest College
1978 MA. – Philosophy University of Wisconsin-Madison
1983 Ph.D. – Sociology University of Wisconsin-Madison

Professional Experience

1993 – present Associate Professor of Sociology, University of Notre Dame
1988 – 1993 Assistant Professor of Sociology, University of Notre Dame
1987 – 1988 Visiting Assistant Professor of Sociology, University of Notre Dame
1983 – 1987 Assistant Professor of Sociology, University of Washington

Research Areas

Social Networks, Research Methods and Statistics, Labor Markets, Social Stratification
and Mobility, Organizations, Work and Occupations

Articles in Refereed Journals or Edited Volumes

* Undergraduate student, @Graduate student, +Postdoctoral

Co-author order: Unless otherwise noted, last name is lead author; first name is lead graduate student or researcher.

J. David Creswell*, Stephen Price*, Yasaman Sefidgar, Sheldon Cohen, Yiyi Ren, Jennifer Brown, Anind K. Dey, Janine M. Dutcher, Daniella Villalba, Michael Tumminia, Jennifer Mankoff, Xuhai Xu, Kasey Creswell, Afsaneh Doryab, Stephen Mattingly, Aaron Striegel, David Hachen, Gonzalo Martinez, Marsha C. Lovett. 2023. "Nightly sleep duration predicts grade point average in the first year of college." *Proceedings of the National Academy of Sciences*. JIF 12.779 * Lead authors

Hachen D, Wang C, Sepulvado B@, Lizardo O. 2022 "Generators or diffusers? Examining differences in the dynamic coupling of context and social ties across multiple types of foci". *Social Networks*. JIF 4.144. Note: Hachen is lead/first author.

Wang C, Lizardo O, Hachen DS. 2022. "A Longitudinal Study of Fitbit Usage Behavior Among College Students." *Cyberpsychol Behav Soc Netw*. 25: 181–188. JIF 6.135 Note: Wang is lead author.

Wang C, Mattingly S@, Payne J, Lizardo O, Hachen DS. 2021. "The Impact of Social Networks on Sleep among a Cohort of College Students." *SSM - Population Health* 16 (December): 100937. JIF 4.086.

Sepulvado, Brandon@, Lizardo, O., Wood, M. @, Wang, C., and Hachen, D. 2021. "Examining the Association Between Behavioral Trajectory Similarity Clusters in Social

Networks." In *Methods and Applications in Social Networks Analysis: Evidence from Collaborative, Governance, Historical, and Mobility Networks*, edited by G. Giordano M. Restaino Salvini, 36–55. Franco Angeli Series on Computational Social Sciences. FrancoAngeli.

Liu, Shikang[@], Fatemeh Vahedian⁺, David Hachen, Omar Lizardo, Christian Poellabauer, Aaron Striegel, and Tijana Milenković. 2021. "Heterogeneous Network Approach to Predict Individuals' Mental Health." *ACM Transactions on Knowledge Discovery from Data*. JIF: 4.157

Wang, C., Lizardo, O., and Hachen, D. 2021. "Using Fitbit Data to Examine Factors That Affect Daily Activity Levels of College Students." *PloS One* 16 (1): e0244747. JIF: 3.752

Fridmanski, E.[@], Wood, M.L.[@], Lizardo, O. and Hachen, D., 2020. "Clustering in a newly forming social network by subjective perceptions of loneliness." *Journal of American College Health*, pp. 1-6. JIF: 2.395

Sepulvado, B.[@], Wood, M.[@], Fridmanski, E.[@], Wang, C. , Chandler, M.⁺, Lizardo, O. and Hachen, D. 2020. "Predicting Homophily and Social Network Connectivity from Dyadic Behavioral Similarity Trajectory Clusters." *Social Science Computer Review*, 1–17. JIF: 4.418

Faust, L.[@], Feldman K.[@], Mattingly, S.[@], Hachen, D. , and Chawla, N. 2020. "Deviations from Normal Bedtimes Are Associated with Short-Term Increases in Resting Heart Rate." *NPJ Digital Medicine* 3 (March): 39. JIF: 15.357

Wang, C., Lizardo, O., and Hachen, D. 2020. "Using Fitbit Data to Monitor the Heart Rate Evolution Patterns of College Students." *Journal of American College Health*. June, 1–8. JIF: 2.395

Wang, C., Lizardo, O., and Hachen, D. 2020. "Neither Influence nor Selection: Examining Co-Evolution of Political Orientation and Social Networks in the NetSense and NetHealth Studies." *PloS One* 15 (5). JIF: 3.752

Nigam, A., Shin, K., Bahulkar, A., Hooi, B., Hachen, D, Szymanski B., Faloutsos, C. and Chawla, N. 2019. "ONE-M: Modeling the Co-Evolution of Opinions and Network Connections." In *Machine Learning and Knowledge Discovery in Databases*, 122–40. Springer International Publishing.

Faust, L.[@], Wang, C. [@], Hachen, D., Lizardo, O., and Chawla, N. 2019. "Physical Activity Trend eXtraction: A Framework for Extracting Moderate-Vigorous Physical Activity Trends From Wearable Fitness Tracker Data." *JMIR mHealth and uHealth* 7 (3): e11075. JIF: 4.967

Wang, C.[@], Lizardo, O., and Hachen, D. 2018. "Using Big Data to Examine the Effect of Urbanism on Social Networks." *Journal of Urban Affairs*, December, 1–17. JIF: 2.559

Liu, S.[@], Hachen, D., Lizardo, O., Poellabauer, C. , Striegel, A. , and Milenković, T. 2018. "Network Analysis of the NetHealth Data: Exploring Co-Evolution of Individuals' Social Network Positions and Physical Activities." *Applied Network Science* 3 (1). JCI: 0.48

Sepulvado, B.[@], Penta, M.[@], Hachen D., and Lizardo, O. 2015. "Social Affiliation from Religious Disaffiliation: Evidence of Selective Mixing among Youth with No Religious Preference During the Transition to College." *Journal for the Scientific Study of Religion*. 54: 833–841. Note: Hachen and Lizardo were the lead authors on this paper. JIF: 1.969

Wang, C.[@] Lizardo, O., and Hachen, D. 2014. "Triadic Evolution in a Large-Scale Mobile Phone Network." *Journal of Complex Networks* 3 (2):264–90. JIF: 1.492

Wang, C.[@], Lizardo, O., and Hachen, D. 2014. "Algorithms for Generating Large-scale Clustered Random Graphs." *Network Science*, 2(03):403–15. JCI: 0.75

Wang, C.[@], Hachen, D., and Lizardo, O. 2013. "The Coevolution of Communication Networks and Drinking Behaviors. 2013 AAAI Fall Symposium Series: Social Networks and Social Contagion, 30-36.

Wang, C.[@], Lizardo, O., Hachen, D., Strathman, A.[@], Toroczkai, Z., Chawla, N. 2013. "A dyadic reciprocity index for repeated interaction networks," *Network Science* 1(1):31-48. JCI: 0.75 Note: Hachen lead author.

Troy Raeder[@], Lizardo, O. , Chawla, N. and Hachen, D. 2011. "Predictors of Short-Term Decay of Cell Phone Contacts in a Large Scale Communication Network." *Social Networks*. 33 (4):245-257. JIF: 4.144

Davern, M.[@], and Hachen, D. 2006. "The Role of Information and Influence in Social Networks: Examining the Association Between Social Network Structure and Job Mobility." *American Journal of Economics and Sociology*. 65 (2):269-293 JIF: 1.103

Conway, B.[@], and Hachen, D. . 2005. "Attachments, Grievances, Resources, and Efficacy: The Determinants of Tenant Association Participation Among Public Housing Tenants." *Journal of Urban Affairs*. 27 (1):25-52. JIF: 2.559

Hachen, D. 1993. "Intragenerational Mobility Regimes in the United States and Canada: A Comparative Analysis." Pp. 3-41 in *Research in Social Stratification and Mobility*, Volume 12, edited by R. Althausen and M. Wallace. Greenwich, CT: JAI Press. JIF: 3.909

Hachen, D. 1992. "Industrial Characteristics and Job Mobility Rates." *American Sociological Review* 57:39-55. JIF: 12.444

Hachen, D. 1990. "Three Models of Job Mobility in Labor Markets." *Work and Occupations*. 17:320-354. JIF: 2.410

Hachen, D. 1988. "Industrial Labor Markets and Job Mobility Rates." Pp. 35-68 in *Research in Social Stratification and Mobility*, Volume 7, edited by Arne Kalleberg. Greenwich, CT: JAI Press. JIF: 3.909

Hachen, D. 1988. "The Delicate Balance: Technology and Control in Organizations." *The British Journal of Sociology*. 39:337-357. JIF: 3.277

Hachen, D. 1988. "The Competing Risks Model: A Method for Analyzing Processes with Multiple Types of Events." *Sociological Methods and Research* 17:21-54. JIF: 4.677

Hachen, D. 1988. "Gender Differences in Job Mobility Rates in the United States." *Social Science Research*. 17: 93-116. JIF: 2.617

Wright, E., Costello, C., Hachen, D., and Sprague, J. 1982. "The American Class Structure." *American Sociological Review*. 47: 709-726. JIF: 12.444

Articles in Published Conference Proceedings

* Undergraduate student, @ Graduate student, + Postdoctoral

Liu, S.®, Hachen, D., Lizardo, O., Poellabauer, C., Striegel, A., and Milenković, T. 2020. "The Power of Dynamic Social Networks to Predict Individuals' Mental Health." *Pacific Symposium on Biocomputing* 25: 635–646.

Faust, L.®, Jiménez-Pazmino®, P., Holland*, J., Lizardo, O., Hachen, D., and Chawla, N. 2019. "What 30 Days Tells Us About 3 Years: Identifying Early Signs of User Abandonment and Non-Adherence." In *Proceedings of the 13th EAI International Conference on Pervasive Computing Technologies for Healthcare*, 216–24. ACM.

Faust, L.®, Hachen, D., Lizardo, O., and Chawla, N. 2018. "Quantifying Subjective Well-Being Using Trends in Weekend Activity." *2018 IEEE International Conference on Healthcare Informatics (ICHI)*, 123–29.

Vhaduri, S.®, Poellabauer, C., Striegel, A., Lizardo, O., and Hachen, D. 2017. "Discovering Places of Interest Using Sensor Data from Smartphones and Wearables." *2017 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computed, Scalable Computing & Communications, Cloud & Big Data Computing, Internet of People and Smart City Innovation (SmartWorld/SCALCOM/UIC/ATC/CBDCom/IOP/SCI)*: 1–8.

Faust, L.®, Purta, R.®, Hachen, D., Striegel, A., Poellabauer, C., Lizardo, O., and Chawla, N. 2017. "Exploring Compliance: Observations from a Large Scale Fitbit Study." In *Proceedings of the 2Nd International Workshop on Social Sensing*, 55–60. SocialSens'17. New York, NY, USA: ACM.

Purta, R.®, Mattingly, S.®, Song, L.®, Lizardo, O., Hachen, D., Poellabauer, C. and Striegel, A., 2016. "Experiences Measuring Sleep and Physical Activity Patterns Across a Large College Cohort With Fitbits," in *Proceedings of the 2016 ACM International Symposium on Wearable Computers* (pp. 28-35). ACM.

Purta, R.,® Hachen, D., Liew, J., and Striegel, A. 2015 "Toward a System for Longitudinal Emotion Sensing," in *Mobile Ad Hoc and Sensor Systems (MASS), 2015 IEEE 12th International Conference on*, vol., no., pp.651-656, 19-22.

Striegel A., Liu S.®, Meng, L.®, Poellabauer, C., Hachen, D., and Lizardo, O. 2013. "Lessons learned from the Netsense smartphone study," *Proceedings of ACM HotPlanet (workshop at ACM SIGCOMM), Hong Kong*, 51–56. **Best Paper Award.**

Zhi Z.[@], Kijewski-Correa, T. , Kareem, A. , Hachen, D. , and Madey, G. 2012. "Citizen Engineering: Evolving OSS Practices for Engineering Design and Analysis." 8th International Conference on Open Source Systems, (OSS2012), Hammamet, Tunisia.

Z. Zhai[@], Kijewski-Correa, T. , Hachen, D. , and Madey, G. 2012. "Haiti Earthquake Photo Tagging: Lessons on Crowdsourcing In-Depth Image Classifications." Seventh IEEE International Conference on Digital Information Management, ICDIM 2012, Macau, China, August 22-24, 2012. IEEE 2012, ISBN 978-1-4577-1538-9.

Zhi, Z.[@], Hachen, D., Kijewski-Correa, T. Shen, F. and Madey, G. 2012. "Citizen Engineering: Methods for 'Crowdsourcing' Highly Trustworthy Results," *Proceedings 45th Hawaii International Conference on System Sciences*, January 4-7, Maui, Hawaii: 3406-3415.

Books

Hachen, D. 2001. *Sociology in Action: Cases for Critical and Sociological Thinking*. Thousand Oaks, CA: Sage.

Hachen, D. 2001. *Instructor's Manual to Accompany Sociology in Action*. Thousand Oaks, CA: Sage

Grants - External

NetHealth: Modeling the Co-Evolution of Social Networks and Health Behaviors", NIH-NHLBI, 2014-2019, Lead Investigator, Hachen; co-I's, Lizado, Poellabauer, Striegel, Chawla, Payne, Milenković (\$2,913,061).

"Using Smart Devices to Capture the Emotionality of Offline Communication" (co-Is Hachen, Striegel, Lu), National Academies Keck Futures Initiative, 2013-2015 (\$100,000).

"MRI: Acquisition of a Data Analytics Cluster for Computational Social Science" National Science Foundation, MRI, 2012-14 (\$451,839). Hachen, co-I: lead PI, Nabrzyski.

"Explorations on the Effects of Pervasive Networking on Social Relationships and Resource Planning" (co-PI with Aaron Striegel, Omar Lizardo and Chris Poellabauer), National Science Foundation, Social-Computing Systems (SoCS), 2010-2013 (\$748,825)

"Network Science Collaborative Technology Alliance" (co-PI with Zoltan Toroczka, Omar Lizardo, Nitesh Chawla), Army Research Lab, 2009-2010 (\$350,000).

"Open Sourcing the Design of Civil Infrastructure (OSD-CI)" (with Lead-PI Tracy L Kijewski-Correa and co-Is Ahsan Kareem, Gregory Madey, Douglas Thain), National Science Foundation, Cyber-Enabled Discovery and Innovation , 2009-2013 (\$1,537,180)

"Longitudinal Analysis and Modeling of Large-Scale Social Networks Based on Cell Phone Records" (co-PI with Zoltan Toroczka, Omar Lizardo, Nitesh Chawla and Mark Alber), National Science Foundation, Division of Behavioral and Cognitive Sciences, HSD – Dynamics of Human Behavior, 2008-2011 (\$699,770)

"Integrated Wireless Phone Based Emergency Response System" (co-PI with Albert-Laszlo Barabasi, PI, and Gregory R. Madey, co-PI). National Science Foundation, Dynamic Data Driven Application Systems, 2006-2009 (\$500,000).

"Organizational Determinants of the Gender Gap in Evaluative Ratings in the Uruguayan State." (with Ana L. Rodriguez-Gusta). National Science Foundation Doctoral Dissertation Research Improvement Grant, 1999-2000 (\$7,410)

"Social Networks and Labor Market Mobility." (with Michael Davern). National Science Foundation Doctoral Dissertation Research Improvement Grant, 1997-1998 (\$4,425)

Grants - Internal

"Center for Sustainability Data Research Initiative – Notre Dame", Center for Sustainable Energy at Notre Dame, Sustainable Energy Initiative, 2013, lead PI Aimee Buccallato, (\$29,800)

"Center for Sustainability Data Research Initiative – Notre Dame," Institute for Scholarship in the Liberal Arts at Notre Dame, 2013 (\$2,500).

"Social Networks Distinguished Lecture Series" (with Omar Lizardo), ISLA, University of Notre Dame, 2009-10 (\$15,000).

"Pilot Study in the Michiana Area of Temporary Help and Staffing Agencies." Pilot Fund for Social Science Research, University of Notre Dame, 2006 (\$11,427)

"Piecing Together Employment: A Study of Multiple Job Holding" (with Naomi Cassirer). Summer Graduate Research Fellowship in Arts and Letters, University of Notre Dame, 1999 (\$5,000)

"Sociology in Action: Making Connections." New Course Preparation Grant, 1996. Institute for Scholarship in the Liberal Arts, University of Notre Dame (\$3,500).

"Life Course Transitions: Their Changing Character and Policy Implications." Henkel Visiting Scholar Series, University of Notre Dame, 1994-1995 (\$5,540 for program)

"Revision of Course 'Today's Organizations.'" Lilly Teaching Fellowship, Lilly Endowment, Inc. and University of Notre Dame, 1992-1993. (\$2,500 and course reduction)

"Comparative Job Mobility." Faculty Summer Research Stipend, Institute for Scholarship in the Liberal Arts, University of Notre Dame, Summer 1991 (\$2,500)

"Revision of Course 'Research Methods.'" Course Development Grant, Hesburgh Program in Public Service, University of Notre Dame, Summer 1989 (\$1,000)

Invited Presentations and Short Courses

"Intermediation in Labor Markets." June 2019. Research Group on Labor and Social Security, Pompeu Fabra University, Barcelona Spain.

"Network Analysis Workshops." June 2019. Instituto Carlos III-Juan March de Ciencias Sociales, Universidad Carlos III de Madrid, Madrid, Spain.

“Social Networks as a Form of Social Organization.” August 2018. Facultad de Ciencias Sociales, Universidad del Salvador, Buenos Aires, Argentina.

“Challenges for the Social Sciences in Conservative Times.” School of Politics and Government, National University of San Martín, Buenos Aires, Argentina.

“Social Networks in Action.” August 2018. Seminar at Instituto de Economía, Facultad de Ciencias Económicas, Universidad de la República Uruguay, Montevideo, Uruguay.

“Emotionality and Social Networks.” August 2014. NAKFI Informed Brain in a Digital World Mid-Cycle Grant Meeting, Chicago, IL (co-authored with Jeffrey Liew, Omar Lizardo, Aaron Striegel)

“Growth, Stability, Change and Inequality in Dynamic Ego Networks.” October 2013, Indiana University-Bloomington, Social-Psychology Colloquium.

“The Evolution of Dyadic Reciprocity in Social Networks.” Symposium – Human Behavior Modeling in Network Science. Behavioral Representation in Modeling Simulation (BRIMS) Conference, Charleston, SC, March 2010.

“Weighted Reciprocity in a Human Communication Network.” Networks and Complex Systems Talk Series, Cyberinfrastructure for Network Science Center, School of Library and Information Science, Indiana University Bloomington, February 2010.

“Creativity in Learning.” Junior Parents Weekend, University of Notre Dame, February 1995.

Conference Presentations

“Identifying Personal Network Types.” July 2023. International Sunbelt Social Network Conference, Portland, Oregon. (Hachen presenter, co-authored with Lizardo, Sepulvado, Wang)

“The NetHealth Project and Data: New Opportunities for Studying Social Networks and Health Related Behaviors.” Networks 2021: Joint Sunbelt and NetSci Conference. July 2021.Virtual. (Hachen presenter, co-authored Lizardo)

“Do Lonely Birds Flock Together?: Determinants of Assortative Mixing on Loneliness Among a Cohort of First Year College Students.” Networks 2021: Joint Sunbelt and NetSci Conference. July 2021.Virtual. (co-authored with Lizardo, Fridmanksi, Wang; Fridmanksi presenter)

“Peer influence on personal sleep patterns.” Networks 2021: Joint Sunbelt and NetSci Conference. July 2021.Virtual. (co-authored with Wang, Mattingly, Payne, Lizardo; Wang presenter)

“Examining the Empirical Linkages Between Different Kinds of Ties in Ego Networks.” June 2018. International Sunbelt Social Network Conference, Utrecht, The Netherlands. (co-authored with Lizardo, Chandler, Wang)

“Personality and Other Predictors of Nodal Degree Among a Cohort of First-Year College Students.” 2017. Society for Personality and Social Psychology Annual Conference. San Antonio, TX.

“Ethnoracial Status and Tie Decay in Social Networks: Linking Triracial Hierarchy and Simmelian Tie Theory.” August 2016. American Sociological Association Meetings, Seattle, WA (co-authored with Lizardo, Penta, Sepulvado, and Chandler; Sepulvado presenter).

“The Dynamic Coupling of Two-Mode Social Foci Networks and One-Mode Social Networks.” July 2016. Networks in the Global World Conference, Saint Petersburg, Russia (co-authored with Lizardo, Wang and Gundy).

“Ethnoracial Status and Social Networks: Linking Triracial Hierarchy and Simmelian Tie Theory.” April 2016. International Sunbelt Social Network Conference, Newport Beach, CA (co-authored with Lizardo, Penta, Chandler, Sepulvado and Wang).

“The Life of a Tie: Formation, Persistence, and Development of Social Ties in a College Student Cohort.” June 2015. International Conference on Computational Social Science (IC2S2), Helsinki, Finland (co-authored with Omar Lizardo, Michael Penta, Brandon Sepulvado, and Matthew Chandler).

“Dynamic Ego Networks.” June 2014, NetSci’14 Symposium: Temporal Networks, Human Dynamics and Social Physics, Berkeley, CA (co-authored with Lizardo, Penta, Sepulvado and Workman).

“Growth, Stability, Change and Inequality in Dynamic Ego Networks.” February 2014, International Sunbelt Social Network Conference, St. Petersburg Beach, FL (co-authored with Lizardo, Penta, Sepulvado and Workman)

“Virtual Communities.” Sustainable Data Community Forum, July 2013, Chicago, IL (with Tracy Kijewski-Correa)

“The Effects of Individual Traits on the Formation of Social Networks Among First-Year College Students.” NSF SoCS PI Meeting, June 2013, Seattle, WA (with Omar Lizardo)

“The Effects of Individual Traits on the Formation of Social Networks Among First-Year College Students.” NetSci 2013, June 2013, Copenhagen, DK (with Omar Lizardo)

“Weighted reciprocity in human communication networks.” American Sociological Association Meetings, Denver, CO, August 2012 (co-authored with Wang, Strathman, Lizardo, Toroczka, and Chawla)

“D-Work: Controlling Distributed, Volunteer, and Redundant Work to Facilitate Innovation.” 24th Annual Meetings of Society for the Advancement of Socio-Economics (SASE), MIT, Cambridge, MA, June 2012 (co-authored with Zack Kertcher)

"NetSense: A New Network Data Collection Platform for the Study of the Dynamics of Social Relationships." SoCS NSF PI Meetings, Ann Arbor, MI, June 2012.

"D-Work: Controlling Distributed, Volunteer and Redundant Work to Facilitate Innovation." American Sociological Association Meetings, Denver, CO, August 2012 (co-authored with Zack Kertcher)

"NetSense: A New Network Data Collection Platform for the Study of the Dynamics of Social Relationships." Sunbelt Social Network Conference, Redondo Beach, CA, March 2012 (with Lizardo, Penta, and Crubaugh)

"It's Boring and Repetitive: Why Do People Do It? An Experiment on Motivation in Crowdsourcing Work." CrowdConf 2011, San Francisco, CA, November 2011. (co-authored with Zack Kertcher, presenter)

"It's Boring and Repetitive: Why Do People Do It? An Experiment on Motivation in Crowdsourcing Work." 4th Annual People and Organizations Conference, The Wharton School, Philadelphia, PA, October 2011. (co-authored with Zack Kertcher, presenter)

"Online Work Motivation: An Experiment with Instrumental and Moral Incentives." American Sociological Association Meetings, Las Vegas, NV, August 2011. (co-authored with Zack Kertcher, presenter)

"Online Work Motivation: An Experiment with Instrumental and Moral Incentives." Society for the Advancement of Socio-Economics (SASE), Madrid, Spain, June 2011. (co-authored with Zack Kertcher, presenter)

"Dyadic Reciprocity and the Emergence of Degree-Assortativity in Weighted Social Networks." International Sunbelt Social Network Conference, St. Petersburg Beach, FL, February 2011 (co-authored with O. Lizardo, Z. Toroczkai, A. Strathman, H. Kim and C. Wang).

"Longitudinal Analysis and Modeling of Large-Scale Social Networks Based on Cell Phone Records." Human and Social Dynamics 2010 Grantees Conference, Washington, D.C., September 2010.

"Reciprocity and Degree Assortativity in Social Networks." Workshop on Information in Networks (WIN), NYU Stern School of Business, New York City, September 2010.

"Weighted reciprocity in a human communication network." International Sunbelt Social Network Conference, Riva del Garda, Italy, July 2010.

"Network Behavior Indicators of Trust." Network Science (NS) Collaborative Technology Alliance (CTA) Conference, Boston, June 2010

"Reciprocity and Degree-Assortativity in Human Communication Networks" NetSci 2010, Cambridge, MA, May 2010 (with Omar Lizardo).

"Reciprocity: The Missing Link." NetSci09, International Workshop on Network Science, Venice, Italy, June 2009.

"Correlates of Reciprocity in a Large-Scale Communication Network: A Weighted Edge Approach." International Sunbelt Social Network Conference, San Diego, March 2009.

"Look Who's Talking... in Europe." *Wireless Wave*. Fall 2007, pp. 52-54.

"WIPER: The Integrated Wireless Phone Based Emergency Response System" Dynamic Data Driven Applications Systems - New Drivers for Networking and Communication Organized in conjunction with the National Science Foundation (NSF), IEEE Globecom Conference, Washington, D.C., November 2007.

"Contracting Out Work in the 1990s." American Sociological Association Meetings, San Francisco, August 2004.

Discussant. "Virtual Culture: The Internet and Social Movement Mobilization." American Sociological Association Meetings, Atlanta, August 2003.

"Using the Web of Science for Bibliographic Research." Institute for Educational Initiatives Lecture Series, University of Notre Dame, March 2001.

"Voluntary Job Mobility and Social Network Structure," with Michael Davern. American Sociological Association, Chicago, August 1999.

"An Analysis of Changing American Industrial Characteristics," with Michael Davern. American Sociological Association, San Francisco, August 1998.

"Mobility Channels and Social Inequalities." American Sociological Association, New York, August 1996.

"Mobility Channels and Social Inequality." International Conference on *Income Inequality: Perspectives from Europe and America*, University of Notre Dame, September 1995.

"Cases and Cooperative Learning Groups: An Integrated Active Learning Model." American Sociological Association, Washington, D.C., August 1995.

"The Interrelationships Among Job Shift Characteristics." American Sociological Association, Washington, D.C., August 1995.

"Teaching with Cases and Cooperative Learning." Workshop conducted with Charles Claiborn. The Wakonse Conference on College Teaching, Shelby, Michigan, May 1994.

"Labor Markets: International Comparisons." Discussant. American Sociological Association, Miami, Florida, August 1993.

"Mobility Regimes in the United States and Canada: A Comparative Analysis." American Sociological Association, Pittsburgh, Pennsylvania, August 1992.

"Unemployment and Work Transition. Regular Session." Discussant. American Sociological Association, Cincinnati, Ohio, August 1991.

"Mobility Regimes in the United States and Canada: A Comparative Analysis." Vith International Meetings of the Comparative Project on Class Structure and Class Consciousness, Granada, Spain, July 23-26, 1991.

"Social Stratification. Regular Session." Organizer and Presider. American Sociological Association, Washington, D.C., August 1990.

"Labor Market Structure: Causes and Consequences. Regular Session." Discussant. American Sociological Association, Washington, D.C., August 1990.

"New Skills and New Jobs." American Sociological Association, San Francisco, California, August 1989.

"Industrial Characteristics and Job Mobility Rates." American Sociological Association, Atlanta, Georgia, August 1988.

"Gender Differences in Job Mobility Rates: A Test of Human Capital and Segmentation Explanations." American Sociological Association, New York, August 1986.

"Gender Differences in Job Mobility Rates: A Test of Human Capital and Segmentation Explanations." Presented at the International Conference on Applications of Event History Analysis in Life Course Research. Max Planck Institute for Human Development and Education, Berlin, June 1986.

"Gender Differences in Career Mobility Patterns." Presented at Meeting of the International Sociological Association Research Committee on Social Stratification and Mobility, Harvard University, Cambridge, Massachusetts, September 1985.

"Technology and Control in Complex Organizations." American Sociological Association, Washington, D.C., August 1985.

"Class and Career Mobility." Midwest Sociological Society, Kansas City, April 1983.

"Inequality in World Perspective." Session Organizer and Chair. Midwest Sociological Society, Kansas City, April 1983.

"Class Structure and Career Mobility." Wisconsin Sociological Association, Eau Claire, Wisconsin, October 1982.

"A Framework for the Analysis of Work Organizations in Capitalist Societies." Midwest Sociological Society, Des Moines, Iowa, April 1982.

"Reagan's Economics: Intellectual and Ideological Considerations." Discussant. Midwest Sociological Society, Des Moines, Iowa, April 1982.

Notre Dame Presentations

"Temporary Help Agencies as Intermediaries in Labor Markets." Higgins Labor Studies Program, University of Notre Dame, January 2011.

"Reciprocity in a Human Communication Network." Department of Sociology Colloquium, University of Notre Dame, March 2010.

"Mobile Phone Use and Social Networks" Department of Sociology Colloquium, University of Notre Dame, February 2007.

"Using WebCT Vista" Presentation to Vista User's Group, University of Notre Dame, September 2005.

"Contracting Out in the 1990s." Sociology Department Colloquia, University of Notre Dame, November 2003.

"Grievances, Resources, Attachment and Efficacy: The Determinants of Tenant Association Participation Among Public Housing Tenants." Sociology Department Colloquia, University of Notre Dame, January 2003.

"Electronic Resources for Bibliographical Research on Sociological Topics." Undergraduate Proseminar, University of Notre Dame, September 2001, October 2002, April 2003, October 2003, September 2004.

"Using the Web of Science for Bibliographic Research." Institute for Educational Initiatives Lecture Series, University of Notre Dame, March 2001.

Presenter at Teaching Well, Saving Time Workshop, Kaneb Center for Teaching and Learning, University of Notre Dame, December 2000.

Discussant "Are Private Schools Privatizing? Schooling Organizations and Parents' Political Participation." Conference on Public and Private School Influences on Student Outcomes, Institute for Educational Initiatives, University of Notre Dame, November 2000.

"Piecing Together Employment: A Study of Multiple Job Holding." Sociology Department Colloquia, University of Notre Dame, April 2000.

"Places and Spaces for Conversing at Notre Dame." Faculty Brown Bag, Kaneb Center for Teaching and Learning, University of Notre Dame, September 1999.

"Can Computer-Generated Presentations Increase Interaction in the Classroom?" Ameritech and Ohio Foundation of Independent Colleges Conference, University of Notre Dame, July 1995.

"Using Cooperative Learning Groups in College Classrooms." Presentation to Teaching Fellows, College of Arts and Letters, University of Notre Dame, October 1994

Graduate Students and Postdoctoral Fellows Supervised

(name, graduation date, current position)

- Jay R. Howard, Ph.D., 1992, Dean of the College of Liberal Arts and Sciences, Butler University
- Thomas Burkemper, Ph.D., 1994, Anheuser Busch Co.
- Michael Davern, Ph.D., 1999, Executive Vice-President of Research, NORC.
- Matthew Larner, Ph.D., 2007.
- Ana L. Rodriguez-Gusta, Ph.D., 2004, Professor, Universidad Nacional de San Martin, Buenos Aires, Argentina.
- Cheng Wang, Ph.D., 2012, Assistant Professor, Wayne State University
- Matthew Chandler, Ph.D., 2017, NetHealth Postdoctoral Fellow 2018-2020, Research Data Management Specialist, Princeton Research Data Service, Princeton University
- Brandon Sepulvado, Ph.D., 2019, Data Scientist, NORC
- Ethan Fridmanski, Ph.D., 2021, Data Librarian, Indiana University
- Constance Davis, M.A., 2020

Synergistic Activities

- Steering Committee, Lucy Family Institute for Data and Society, 2021- present
- Founding Fellow, Interdisciplinary Center for Network Science and Applications, University of Notre Dame, 2008- 2020; Co-Director, 2009-2020
- Behavior/Culture Change Working Group, Office of the Provost, 2020
- Center for Research Computing Faculty Advisory Committee, 2016-2020
- Founding Fellow, Wireless Institute, University of Notre Dame, 2009-2015
- Fellow, Institute for Education Initiatives, University of Notre Dame, 2000-present
- Faculty Affiliate, Higgins Labor Research Center, University of Notre Dame, 2000-2015

- Course Management Systems Steering Committee, University of Notre Dame, 2005-2008
- Chair and Organizer, Faculty Learning Community, Notre Dame Web Group, 2003-2006
- Advisory Board Member, Center for Creative Computing 2003-2006
- Co-Organizer, Race & Culture Film Series, 2003-2004

Professional Memberships:

- American Sociological Association
- International Network of Social Network Analysis
- Network Science Association