Elisa Jayne Bienenstock

College of Public Service and Community Solutions 602.496.0927 (Office)

Arizona State University 602.496.0950 (fax)

411 N. Central Avenue, Suite 400 818.625.9047 (cell)

Phoenix, AZ 85004 Clearance: Secret (08/2018)

ejb01@asu.edu TS / SCI: (expired 08/2013) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Professional Experience:**

2015-present **College Research Professor**

 College of Public Service and Community Solutions

 Primary appointment: School of Public Affairs

 Arizona State University

2010-2015 **Associate Research Professor**

Department of Human Science

Georgetown University, Washington, DC

2011-2013 **Program Manager** (50%)

 Army Research Office (ARO)

Contract officer representative for Social Science research programs

2008-2010 **Chief Human Science Officer**

National Security Innovations (NSI, Inc.) , Ballston, VA

2003-2008 **Associate**

 Booz Allen Hamilton

 – Social network analysis, game theory and statistical consultant for government agencies

– Science/Engineering Technology Advisor (SETA) to Defense Advanced Research Project Agency (DARPA) and Office of Naval Research (ONR)

2001-2003 **Visiting Assistant Professor**

Department of Sociology

University of California, Irvine, CA

1996-2001 **Assistant Professor**

Department of Sociology

Stanford University, Palo Alto, CA

1994-1996 **Assistant Professor**

Department of Sociology

University of North Carolina, Chapel Hill, NC

# Education

1988-1992 Ph.D. **University of California, Los Angeles**

Sociology (Mathematical sociology and social psychology)

*Thesis*: Game Theory Models for Exchange Networks: An Experimental Study

Advisor: Phillip Bonacich

Committee: Marilyn Brewer, Peter Kollock, David McFarland and Lloyd Shapley

1986-1988 M.A **University of California, Los Angeles**

Sociology (Social networks)

*Thesis*: Network Homogeneity and Density on Political and Social Attitudes

Advisors: Phillip Bonacich and Melvin Oliver

1980-1984 B.A. **University of California, Los Angeles**

Political Science

# Funded Research

***Note: Proprietary or classified clients who funded research are not listed below and can be provided under appropriate circumstances.***

2016-2017 *Title:* **Identifying Key Actors in Heterogeneous Networks**

 Army Research Office

 Role: PI

 ~$50,000

2016-2017 *Title:* **Big Open Source Social Science (BoSSS)**

 Army Corp of Engineers’ Construction Engineering Research Laboratory

 Role: PI

 ~$50,000

# 2013-2014 *Title*: Understanding the use of Social Media for Mobilization, Coordination and Interpretation

# Office of Naval Research (ONR)

# Role: PI

# ~$125,000

# 2009-2013 *Title*: Methods and Algorithms for Gleaning Meaning from Real World Behavioral Dynamic Social Networks

# Office of Naval Research (ONR)

# Role: Co-PI; Janet Mann (PI)

# ~$900,000

# 2009-2011 *Title*: Ethnic Conflict, Repression, Insurgency and Social Strife (ERIS)

# Combating Terrorism Technical Support Office (CTTSO)

# Human Social Cultural and Behavioral Modeling Program (HSCB)

# Role: PI

# ~$1,200,000

# 2009-2010 *Title*: Multi-Method, Multi-Community Study of Islamic Diaspora (SID)

# Office of Naval Research (ONR)

# Human Social Cultural and Behavioral Modeling Program (HSCB)

#  Role: PI

# ~$200,000

# 2008 *Title*: Knowledge Acquisition for the Human Terrain

# Defense Advanced Research Project Agency (DARPA)

 Role: PI

~$60,000

* 1. *Title*: **Goals-Means Leadership Decision Model**

Air Force Research Laboratory (AFRL)

Proactive Intelligence

Intelligence Advanced Research Project Agency (IARPA)

Role: PI

~$1,500,000

2007-2008 *Title*: **Social Network Analysis Simulator**

Air Force Research Laboratory (AFRL)

Proactive Intelligence

Intelligence Advanced Research Project Agency (IARPA)

Role: PI

~$2,000,000

2007 *Title***: Multi-Player Online Game**

Defense Advanced Research Project Agency (DARPA)

Role: PI

~$300,000

2005 *Title*: **Model of State Failure in two Countries**

Pre-Conflict Anticipation and Shaping (PCAS)

 Defense Advanced Research Project Agency (DARPA)

 Role: PI

~$1,200,000

2000-2003 Academic Senate Council on Research, Computing and Library Resources (CORCLR)

University of California, Irvine, CA

Role: Co-PI; Co-PIs: George Tita, Katherine Faust

$18,000

1992-1994 *Title*: **Exchange in Negatively Connected Networks**

National Science Foundation

SES-9210058

Role: Co-PI (PI: Phillip Bonacich)

~$200,000

1991-1992 *Title*: **Game Theory Models for Exchange Networks**

National Science Foundation

SES-910043, Dissertation Fellowship

$5,000

**Academic Appointments, Research Positions, and other Affiliations**

2009-2016 **Affiliate**, Department of Psychology

 Georgetown University

2011-2013 **Adjunct Professor**, Department of Sociology

 Georgetown University

2008-2010 **Adjunct Professor**, Department of Human Science

School of Nursing and Health Studies / Medical Center

Georgetown University

2006-2008 **Adjunct Professor** (Culture Communication and Technology)

 Georgetown University

2003 **Independent Consultant** (Subject Matter Expert)

 Booz Allen Hamilton

2000-2001 **Visiting Scholar**, Department of Sociology

 University of California, Los Angeles

1999-2001 **Consultant**

Institute for Physical Sciences, Los Alamos NM

1991-1994 **Statistical Computer Consultant** to faculty, staff and students

Office of Academic Computing, UCLA

(Currently: *The Institute for Digital Research and Education*)

1990-1994 **Research Assistant**

Center for the Study of Urban Poverty, UCLA

- Conducted research on data management, regression, discriminant analysis and the use of

statistical programs

1993 **Lecturer**, Department of Sociology

University of California, Los Angeles

1984-1992 **Research Assistant**

Department of Sociology, UCLA

- Statistical analysis, database management and computer programming; projects included comparable worth, graphical presentation of population data, employment patterns among U.S. males and exchange theory

1988-1991 **Manager of Modeling Applications**

American Computer Group

- Statistical consultant to private list-management company

1986-1990 **Computer Consultant**

Jet Propulsion Laboratory, NASA

- Designed programs to aid Earth and Space Science Division to integrate computer systems. Lectured on relevant software. Procured computer systems and peripherals

1989 **Class Assistant** for Lloyd Shapely, 2012 Nobel Memorial Prize in Economic Sciences

Department of Mathematics, UCLA

- Topics included: Games in extensive form, 2-person zero sum games, saddlepoints, N-person games with transferable and nontransferable utility, linear programming

1984-1986 **Computer Consultant**

Social Science Computing Facility, UCLA

#### Teaching Experience

*UG: undergraduate; G: graduate*

Arizona State University

2016 Social Capital (G)

2016 Public Service Research I (G)

Georgetown University

2008-2012 Research Theory and Communication in Science and Healthcare (UG)

2012 Social Networks (UG)

2011 Introduction to Sociology (UG)

2003-2005 Social Networks (G)

2004 Research Methods (G)

University of California, Irvine

2002 Research Methods (UG)

2002 Research Methods (G)

2002 Experimental Methods (UG)

2002 Social Psychology Practicum (UG)

2001 Introduction to Social Psychology (UG)

2001 Social Network Theory (G)

Stanford University

2000 Social Exchange Theory (G)

1997-2000 Social Psychology and Social Structure (UG)

1996-2000 Senior Seminar: Writing in the Major (UG)

1999 Topics in Mathematical Sociology (G)

1999 Friendship, Status and Social Processes (UG)

1999 Honors Seminar: Writing in the Major (UG)

1998-1999 Sociology Methods IV: Structural Equations Models (G)

1998 Advanced Seminar in Social Networks (G)

1997 Seminar in Social Networks (G)

1996 Social Networks (UG)

###### University of North Carolina, Chapel Hill

1996 Social Networks (G)

1995-1996 Data Analysis in Sociological Research (UG)

1995 Statistics for Sociologists (G)

1995 Social Psychological Theory (G)

1994-1995 Measurement and Data Collection (UG)

University of California, Los Angeles

1993 Mathematical Sociology (UG)

1992 Introduction to Statistics (UG)

**Awards and Honors**

2006 Team Appreciation Award, Booz Allen Hamilton

2005 Team Appreciation Award, Booz Allen Hamilton

2003 Team Appreciation Award, Booz Allen Hamilton

1999-2000 Annenberg Faculty Fellow, Stanford University

1998-1999 Annenberg Faculty Fellow, Stanford University

1998-1999 Presidential Grant for Junior Faculty, Stanford University

1997 Hoefer Prize for Excellence in Undergraduate Writing, Stanford University

### Publications, Articles and Chapters (peer reviewed)

Delabaere, L., Ertl, H.A., Massey, D.J, Hofley, C.M, Sohair, F., **Bienenstock, EJ**, Sebastian, H., Chiolo, I., Larocque, J. Aging impairs double-strand break repair by homologous recombination in Drosophila germ cells. *Aging Cell*, 2016. DOI:10.1111/acel.12556.

**Bienenstock, EJ**, and Salwen, M. Covert Network Analysis: An Exchange Network Theory Perspective. In: *Illuminating Dark Networks: The Study of Clandestine Groups and Organizations.* Gerdes, L.M. (Ed.). Cambridge, UK: Cambridge University Press. 2015.

Mann J, Stanton MA, Patterson EM, **Bienenstock EJ**, Singh LO. Social networks reveal cultural behaviour in tool-using dolphins. *Nature Communications* 3: 1181, 2012.

**Bienenstock EJ** and Astorino-Courtois A. Decision Science: A Subjective Decision Modeling Approach for Identifying Intent. In: *From the Mind to the Feet: Assessing the Perception-to-Intent-to-Action Dynamic*. Astorino-Courtois A, Kuznar L, Canna S, eds. Air University Press. Maxwell Airforce Base, AL. 2011.

.

Singh L, **Bienenstock EJ**, Mann J. Perspectives on Social Network Analysis for Observational Scientific Data. *Handbook of Social Networks: Technologies and Applications.* Furht, B., ed. Springer, New York, NY. 2010.

Bonacich P, **Bienenstock EJ**. Structural Implications of Reciprocal Exchange: A Power-Dependence Approach. *Social Psychology Quarterly* 72(3): 226-240, 2009.

Glanville J, **Bienenstock EJ**. A Typology for Understanding the Connections among Different Forms of Social Capital, *American Behavioral Scientist* 52(11): 1507-1530, 2009.

**Bienenstock EJ**, Bianchi AJ. Activating Performance Expectations and Status Difference through Gift Exchange: Experimental Results. *Social Psychology Quarterly* 67(3): 310-318, 2004.

**Bienenstock EJ**, McBride M. Explication of the Cultural Transmission Model. *American Sociological Review* 69(1): 138-143,2004.

**Bienenstock EJ**. Peter Blau. *Encyclopedia of Social Theory*. Ritzer G, ed. Sage. Beverly Hills, CA, 2004.

**Bienenstock EJ**, Bonacich P. Balancing Efficiency and Vulnerability in Social Networks. *Dynamic Social Network Modeling and Analysis: Summary and Papers.*  Breiger R, Carley K, Pattison P, eds. The National Academies Press. Washington, DC, 2003.

Johnson Jr. JH, **Bienenstock EJ**, Farrell Jr. WC, Bridging Social Networks and Female Labor Force Participation in a Multi-ethnic Metropolis. *Urban Geography*, 20(1): 3-30, 1999.

**Reprinted** in: *Prismatic Metropolis: Analyzing Inequality in Los Angeles*. Bobo L, M. Oliver, J. H., Johnson, Jr. and A. Valenzuela, eds. Russell Sage pp. 383-416, 2000.

Stoloff JA, Glanville JL, **Bienenstock EJ**. Woman's Participation in the Labor Force: The Role of Social Networks. Volume 4. *Social Networks* 21(1): 91-108, 1999.

**Reprinted** in: *Social Network Analysis (Volume 4).* Freeman, L.C. ed. Sage Publications Ltd, 2008.

Bonacich P, **Bienenstock EJ**. Strategy in Exchange Networks: Exploitation versus Accommodation. In: *Status, Networks and Structure: Theory Development in Group Processes*. Szmatka J, Skvoretz J, Berger J, eds. Stanford University Press, 1997.

**Bienenstock EJ**. Response to “Network Games." *Rationality and Society* 9(3): 378-382, 1997.

**Bienenstock EJ**, Bonacich P. Network Exchange as a Cooperative Game. *Rationality and Society* 9(1): 37-65, 1997.

**Reprinted** in: *Models of the Strategic Formation of Networks and Groups*. Jackson MO, Dutta B, eds. Springer, 2003.

Bonacich P, **Bienenstock EJ**. Latent Classes in Exchange Networks: Sets of Positions with Common Interest. *Journal of Mathematical Sociology* 22(1): 1-28, 1997.

Johnson Jr. JH, **Bienenstock EJ**, Stoloff JA. An Empirical Test of the Cultural Capital Hypothesis. *The Review of Black Political Economy* 23(4): 1-27, 1995.

Bonacich P, **Bienenstock EJ**. When Rationality Fails: Unstable Exchange Networks With Empty Cores. *Rationality and* Society 7(3): 293-320, 1995.

**Bienenstock EJ**, Bonacich P. Game Theory Models for Exchange Networks: Experimental Results. *Sociological Perspectives* 36(2): 117-135, 1993.

Bonacich P, **Bienenstock EJ**. Assignment Games, Chromatic Number, and Exchange Theory. *Journal of Mathematical Sociology* 17(4): 243-259, 1993.

**Bienenstock EJ**, Bonacich P. The Core as a Solution to Negatively Connected Exchange Networks. *Social Networks* 14(3): 231-243, 1992.

**Bienenstock EJ**, Bonacich P, Oliver ML. The Effect of Network Density and Homogeneity on Attitude Polarization. *Social Networks* 12(2): 153-172, 1990.

## Technical Papers

**Bienenstock EJ**, Troy KK, Lovell Pfautz S. Overview of Collaboration in the National Security Arena: A Multidisciplinary Collection of Perspectives. In: *Collaboration in the National Security Arena: Myths and Reality - What Science and Experience Can Contribute to its Success.* O’Connor J, **Bienenstock EJ**, Briggs RO, Dodd C, Hunt C, Kiernan K, McIntyre J, Pherson R, Rieger T, eds. Topical Strategic Multi-Layer Assessment (SMA) Multi-Agency/Multi-Disciplinary White Papers in Support of Counter-Terrorism and Counter WMD, 2009.

**Bienenstock EJ**, Troy KK. Collaboration in the National Security Arena as a Social Dilemma. In: *Collaboration in the National Security Arena: Myths and Reality - What Science and Experience Can Contribute to its Success.* O’Connor J, **Bienenstock EJ**, Briggs RO, Dodd C, Hunt C, Kiernan K, McIntyre J, Pherson R, Rieger T, eds. Topical Strategic Multi-Layer Assessment (SMA) Multi-Agency/Multi-Disciplinary White Papers in Support of Counter-Terrorism and Counter WMD, 2009.

**Bienenstock EJ**, Toman P. Social Network Analysis for Detecting the Web of Rare Event Planning and Preparation. In: *Anticipating Rare Events: Can Acts of Terror, Use of Weapons of Mass Destruction or Other High Profile Acts Be Anticipated?* *A Scientific Perspective on Problems, Pitfalls and Prospective Solutions.* Chesser N, ed. Topical Strategic Multi-Layer Assessment (SMA) Multi-Agency/Multi-Disciplinary White Papers in Support of Counter-Terrorism and Counter WMD, *2008.*

## Abstracts, Proceedings and Reviews

*Hyatt JPK, Caprio LA,* ***Bienenstock EJ****, Kim JA, McCall GM. Introduction of a high-fat/sucrose diet modulates voluntary wheel running activity in adult female rats. Med Sci Sport Exerc ##(##): S###, 2017. ACSM Conference: Denver, CO May 31-Jun 4.*

Hyatt JPK, Brown EA, **Bienenstock EJ**, McCall GM. Acute exercise stress elicits differential gene expression profiles in sedentary vs. detrained soleus muscles. Integrative Biology of Exercise Conference (Phoenix, AZ) Nov. 2-4, 2016.

 Desouza, KC, **Bienenstock EJ.** “What Simulators Could Do for Public Management” *Governing* September 26, 2016. http://www.governing.com/gov-institute/voices/col-benefits-simulators-public-management-training.html

**Bienenstock, EJ**., Massively Parallel Globalization: Explorations in Self-Organization and World Politics. *Contemporary Sociology: A Journal of Reviews*, *45*(6), 739-741. 2016.

**Bienenstock, EJ**., Salwen M. Modeling Coalitions Within Constraints: An Integration of Social Network and Game Theories. Sunbelt 36: Int’l Social Network Conference. Newport Beach, CA, 2016.

Sohail, F, **EJ Bienenstock**, JR LaRocque. “The effects of aging on double-strand break repair.” American Federation on Aging Research Conference. Santa Barbara, CA., 2014.

**Bienenstock, EJ.** A Weakness of Dyadic Ties. Sunbelt XXXIV: Int’l Social Network Conference. St. Pete Beach, FL, 2014.

**Bienenstock, EJ**. Aligning simulations of networks with experimental results, International Studies Association Annual Conference, San Fransisco, CA, 2013.

Bonacich,P. **Bienenstock, EJ** Coalitions in Exchange Networks: Some New Research. Sunbelt XXXI: Int’l Social Network Conference. St. Pete Beach, FL, 2011.

**Bienenstock,EJ**, Singh,L, Samuel N, Bansal, SK, Stanton, M, Mann, J. Identifying Bias and Its Effects on Interpreting Behavioral Social Network Data. Sunbelt XXXI: Int’l Social Network Conference. St. Pete Beach, FL, 2011.

Mann J, Patterson EM, **Bienenstock EJ**, Sargeant BL, Stanton MA, Krzyszczyk, EB. Is Dolphin Sponging a Culture? A Social Network Approach. Sunbelt XXX: Int’l Social Network Conference. Riva Del Garda, Italy, 2010.

**Bienenstock, EJ**, Stanton, MA, Mann J. Models of Quasi-Symmetry Relate Sex to Dominance in Wild Dolphin Males. Sunbelt XXX: Int’l Social Network Conference. Riva Del Garda, Italy, 2010.

Stanton MA, Mann J, **Bienenstock EJ**, Gibson QA, Sargeant BL, Bejder L. Snapshot or Movie: How Sampling Methods Bias Social Network Methods. Sunbelt XXX: Int’l Social Network Conference. Riva Del Garda, Italy, 2010.

Salwen M, **Bienenstock EJ**, McCune B, Arana A. Modeling Social Conflict: Theory, Data and Integration Across Multiple Levels. FL, 2010.

Kelton K, Toman P, **Bienenstock EJ**. Cognitive Adaptation to Social Structure, Sunbelt XXX: Int’l Social Network Conference. San Diego, CA, March, 2009.

**Bienenstock EJ**, Kelton K. Social Network Data Validation Techniques. Human Social Cultural Behavioral Science (HSCB) Focus 2010. Chantilly, VA, 2009.

**Bienenstock EJ**, Kelton K. Empirical Verification and Validation of HSCB Models. Human Social Cultural Behavioral Science (HSCB) Focus 2010. Chantilly, VA 2009.

Leets L, Pagano S, **Bienenstock EJ**. Ethical Lapses and Collapses: Detecting Moral Meltdowns Before it is too Late. Human Social Cultural Behavioral Science (HSCB) Focus 2010. Chantilly, VA, 2009.

Lovell Pfautz S, **Bienenstock EJ**. Semi-Automated Quantification of Qualitative Social Science Data. Human Social Cultural Behavioral Science (HSCB) Focus 2010. Chantilly, VA, 2009.

Bianchi AJ, **Bienenstock EJ**, Lancianese DA, Hunter VL. Gift Exchange and Status Differences: An Experimental Test of Behavior-Status and Social Exchange Theories. American Sociological Association 86th Annual Meeting. Philidelphia, PA, 2005.

Glanville J, **Bienenstock EJ**. A Typology for Understanding the Connections among Different Forms of Social Capital. American Sociological Association 86th Annual Meeting. Philidelphia, PA, 2005.

**Bienenstock EJ**, Sageman M, Warner EA. Operationalizing Terror in the Name of God: Using Two-Mode Networks To Link Terrorism To Islamic Institutions. Sunbelt XXV: Int’l Social Network Conference. Redondo Beach, CA, 2005.

**Bienenstock EJ**. The Evolution of Reputation and Cooperation in Emergent Social Networks: A Generalized Exchange Model. Proceedings of the Public Choice Society and the Economic Science Association. 2002.

**Bienenstock EJ**. Review of: Advances in Group Processes, by Lawler EJ, Skvoretz J, Szmatka J. Contemporary Sociology-A Journal of Reviews 30 (2): 153-154, 2001

**Bienenstock EJ**. Networks and Cooperation. Proceedings of the Sunbelt XX International Sunbelt Social Network Conference, 2000.

**Bienenstock EJ**. Measuring Social Exchanges. Abstracts of the Marschak Colloquium at UCLA published in *Mathematical Social Sciences*, 1999.

**Bienenstock EJ**, Rice E. Finding Status in Structured Clustered Data: Using Log-linear Models. Proceedings of the Sunbelt XIX International Sunbelt Social Networks Conference, 1999.

**Bienenstock EJ**, Rice E. Keeping Count of Fish using Log-linear Methods. Proceedings of the Sunbelt XIX International Sunbelt Social Networks Conference, 1999.

Glanville JL, Stoloff JA, **Bienenstock EJ**, Johnson Jr. JH. Women's Participation in the Labor Force: The Role of Social Networks. Proceedings of the American Sociological Association 93rd Annual Meeting, 1998.

**Bienenstock EJ**, Paxton P. Empirically Defining Social Capital. Proceedings of the International Sunbelt Social Networks Conference XVII, 1997.

**Bienenstock EJ**, Johnson JC. Exchange in the Field. Proceedings of the International Sunbelt Social Networks Conference XVII, 1997.

**Bienenstock EJ**. Social Psychology and Network Theory: Should There be a Link? Proceedings of the International Sunbelt Social Networks Conference XVII, 1997.

**Bienenstock EJ**. In the Absence of Rational Choice. Proceedings of the Annual Meeting of the Society for the Advancement of Socio-economics, 1993.

**Bienenstock EJ**, Bonacich P. Assignment Games and Exchange Theory. Presented at the 87th Annual Meeting of the American Sociological Association, 1992.

**Bienenstock EJ**. Assignment Games and Exchange Theory. Proceedings of the Sunbelt Social Networks Conference XII, 1992.

**Bienenstock EJ**. Game Theory Models for Exchange Networks: Implications for Equality. American Sociological Association 86th Annual Meeting. 1991:41.

**Bienenstock EJ**. Game Theory and Exchange Networks. Proceedings of the Sunbelt Social Network Conference X, 1991:10.

**Bienenstock EJ**, Bonacich P. Fraud and Networks. Proceedings of the Sunbelt Social Network Conference XI, 1991:37.

**Bienenstock EJ**. New Models for Exchange Networks: A Research Proposa. Conference on Social Networks, University of California at Santa Barbara, 1990:2.

**Bienenstock EJ**. Fuzzy Logic: An Artificial Intelligence Solution for Direct Marketing. Direct Marketing Association 73rd Annual Conference, 1990.

**Bienenstock EJ**, Bonacich P. Power in Exchange Networks: A New Approach. Proceedings of the Sunbelt Social Network Conference X, 1990:50.

Bienenstock EJ, Bonacich P, Oliver ML. The Effect of Network Homogeneity and Density on Political and Social Attitudes: An Extension of Laumann. Proceedings of the Sunbelt Social Network Conference IX, 1989:2.

## Invited Talks

*The Role of Social Network Analysis (SNA) in Law Enforcement Investigations and Prosecution.* Office of Justice Programs Diagnostic Center Symposium: 21st Century Violence Reduction Strategies on December 6-7, 2016, in Phoenix, Arizona.

*The evolution of reputation and norms of generalized reciprocity in emergent social networks: a simulation.* Presentation to the Social Insect Research Group, School of Life Sciences, Arizona State University, Tempe AZ. November 5, 2015.

*The Importance of Social Science Rigor in Government.* Presentation at College of Public Practice, Arizona State University, Phoenix AZ. March 26, 2015.

*Appreciating Data Limitations for Improved Decision Support.* Presentation at Arizona State University, Tempe, AZ. May 16, 2014.

*Stopping SNA Abuse II: Revealing the exploitation of immature metrics.*

West Point Workshop on Methodological Advances in the Study of Dark Networks, West Point, NY. September 5, 2014.

*Stopping SNA Abuse: Some proposed preventative measures*.

 Presentation to the Department of Sociology, Cornell University, Ithaca, NY. April 27, 2012.

*Networked Games: Empirical and Analytical Nexus.*

Presentation for the Study of Innovation and Technology in China at the Institute on Global Conflict and Cooperation, UCSD. San Diego, CA, September 26, 2011.

*Conflict and Cooperation: Game and Theory*.

Thematic Session: “Conflict and Cooperation in Social Networks.’ Organizer: Michael Macy. Presented at the 106th American Sociological Association Annual Meeting, Las Vegas, NV. August 21, 2011.

*Game Theory and Possible Applications for Predicting Terrorist Groups Financial Condition.*

Presentation at the Outreach Conference on Tools and Trends in Combating Terrorist Structures and Networks. McLean, VA March 9 2011.

*Social Science: Disciplined Study of the Social World.*

Military Operations Research Society (MORS) mini-symposium on the Social Science Underpinnings of Complex Operations (SSUCO). George Mason University, Arlington Campus. October 19, 2010.

*Learning What We Don’t Know: Developing Social Science Methods to Fill Gaps.*

 Army Research Office, Durham, NC. May 10, 2010.

*SNA and the USG: Negotiating Meaning and Expectations.*

 Links Center, University of Kentucky, Lexington December 8, 2009.

*Social Network Analysis: Methods and Myths.*

 Presentation made to the Psychology Department Colloquium, Georgetown University, November 6, 2009.

*Beyond Outliers: Social Science’s Role in Threat Assessment and Prevention.*

Interagency Council for Applied Homeland Security Technology (ICAHST) Counter-IED Symposium, December 1-3, 2009.

*Update on the Inter-Agency Limited Objective Experiment.*

 JASON 2009 Summer Study: DOD Anticipating Rare Events, San Diego, CA. July 9, 2009.

*Quantitative Social Science: Filling the Gap between inductive approaches and Tool Development.*

 Air Force Research Lab. Rome, New York, 2008.

*Social Network Analysis, Application: Terrorism.*

 Presentation to AAAS Fellows at Department of State, Washington, D.C., March 7, 2008.

*To Use Social Network Analysis: The Challenge of Utilizing SNA.*

Presentation for the DTRA/ASCO Workshop on Dynamic Social Network Analysis: Present Roots and Future Fruits. Fort Belvoir, VA February 14, 2008.

*The State and Future Direction of Social Network Analysis.*

Information Briefing to the Defense Threat Reduction Agency (DTRA) Threat Reduction Advisory Committee. Fort Belvoir, Va. January 22, 2008.

*Quantitative-Deductive Social Sciences Approaches.*

 JIEDDO Dynamic Theory of Attacking Networks (DTAN) Workshop. Ballston, VA. October 18, 2007.

*Integrating Game Theory and Social Network Analysis Methods to Model Strategy in Large Human Networks: A Formal Approach.*

Conference on Social Networks and Complexity, Collegium Budapest Institute for Advanced Study, Budapest, Hungary, July 31- August 2, 2006.

*Combining Game Theory and Social Network Analysis: An Empirical Example.*

Presentation for the Culture and Adversary Modeling Workshop, San Antonio TX., November 30-December 1, 2005.

*Constraints on Free Will: Combining Network Analysis and Game Theory to model Structure and Agency.*

Workshop on Formal Modeling Methods for Advanced Collaborative Networked Organizations, sponsored by ThinkCreative. Funchal (Madeira), Portugal, February 13-14, 2003.

*Balancing Efficiency and Vulnerability in Social Networks.*

Workshop on Dynamic Social Network: Modeling and Analysis, sponsored by the National Academy of Sciences and National Research Council. Washington D. C., November 7-9, 2002.

*Networks and Norms: A Computational Model.*

Conference on Mathematical and Statistical Issues in Social Network Analysis, sponsored by the Institute for Mathematical Behavioral Sciences, University of California, Irvine, August 5, 2002.

*Social Psychological Explanations in Macro-Phenomena*

 Group Processes/Rational Choice Annual Mini-conference, August 17, 2001.

*The Evolution of Networks, Reputation and Cooperation.*

Stanford Institute for Theoretical Economics (SITE) Workshops, III. SEGMENT 3: Economic Implications of Networks, July 17 - 20, 2000.

*Generalized Exchange and the Emergence of Cooperation.*

 Invited talk to the Department of Sociology. The University of California at Irvine. January 2000.

*Social Networks Analysis and Computing.*

 University of California at Berkeley Human Centered Computing Retreat, July 9, 1999.

*Agency and Structure in Networks of Exchange.*

 The Human Centered Computing Seminar, University of California at Berkeley, April 13, 1999.

*Measuring Social Exchanges*.

 Marschak Colloquium at University of California at Los Angeles, April 9, 1999.

*Game Theory and Social Exchange.*

 Eleventh Annual Group Processes Conference, August 1998.

*Status and Bonds: Rethinking the Nature of Man.*

 West Coast Small Group Processes Annual Conference, Stanford University May, 1998.

*Didactic Seminar on Game Theory.*

 American Sociological Association Annual Meeting, August 1997.

*Agency in Experimental Networks.*

 Organizational Behavior Seminar Series, Stanford University, April 1997.

*Experimental Exchange Networks: An Application for Game Theory.*

UNC Social Psychology Colloquium, Department of Psychology, University of North Carolina at Chapel Hill, Spring 1995.

*Social Networks as Restricted Assignment Games.*

 UNC-Duke Micro Theory Workshop, Department of Economics, Duke University, 1994.

*Why Be Nice?*

 FEMBA 409, Anderson Graduate School of Management, Winter 1993.

*Rational Behavior / Social Creatures.*

 Management 282, Anderson Graduate School of Management, Spring 1992.

*Applying Game Theory Solutions to Exchange Networks: Experimental Results and Theoretical Implications*.

 UCSB Social Network Seminar." University of California, Santa Barbara, Spring 1992.

*Game Theory Solutions for Exchange Networks: Experimental Results.*

 Social Science Colloquium, University of California at Irvine, Fall 1991.

*Task Group Processes*.

 Management 282, Anderson Graduate School of Management, Spring 1991.

### Professional Service

**University Service (ASU)**

2016 Academic Senator for School of Public Affairs

2016 Chair and Judge for Best Paper Award for CPSCS Doctoral Conference Best Paper Award

2016 Judge for Institute for Social Science Research Graduate Student Poster Competition Award Committee

2016 College of Public Service and Community Service Colloquium: Message Crafting Tips and Tricks

2016 College of Public Service and Community Service Colloquium: Finding and Securing Research Support

**International and National Associations**

2002 Referee for Graduate Student Paper Competition, ASA Mathematical Sociology Section

2002 Discussant, Session on Terrorism, Public Choice Meetings in San Diego

1998 Discussant, Session on Mathematical Sociology, ASA meetings in San Francisco

1998 Committee to select Shills--Coleman award winner, ASA Theory Section.

1998 Organizer, West Coast Small Group Processes Conference, Stanford University.

1998 Session Chair, Game Theory and Networks, International Sunbelt Social Networks Conference in Barcelona, Spain

# Editorial Service

**Editorial Boards**

2003-Present Journal of Mathematical Sociology

1994-1996 *Social Forces* (Journal)

**Proposal Reviews**

2010-2014 Army Research Office / Army Research Laboratory

2010 Defense Threat Reduction Agency

2008-2010 Air Force Office of Scientific Research (AFOSR)

1996-present National Science Foundation

**Journal Reviews**

*American Journal of Sociology*

*American Sociological Review*

*BioScience*

*Social Forces*

*Social Networks*

*Social Problems*

*Rationality and Society*

*Journal of Mathematical Sociology*

*Journal of Social Structure*

*Contemporary Sociology*

*Social Psychology Quarterly*

*Sociological Theory*

*Social Problems*

Press Reviews

Princeton University Press

University of Pennsylvania Press

Cambridge University Press

Roman & Littlefield

Programs Managed for the Army Research Office:

