Curriculum Vitae

KATHERINE FAUST

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EDUCATION

Ph.D.	University of California, Irvine (1985) Social Science
M.A.	University of California, Irvine (1983) Social Science
B.A.	Pomona College (1976) Anthropology With distinction, cum laude, and Phi Beta Kappa

ACADEMIC POSITIONS

2009 -	Professor, Department of Sociology, University of California, Irvine
2001-	Associate Professor, Department of Sociology, University of California, Irvine Faculty Affiliate: Institute for Mathematical Behavioral Sciences Center for Demographic and Social Analysis Center for Organizational Research
1993-2001	Associate Professor, Department of Sociology, University of South Carolina
1988-1993	Assistant Professor, Department of Sociology, University of South Carolina
1987-1988	Assistant Professor, Department of Sociology, The American University
1985-1987	NIMH Postdoctoral Fellow in Quantitative Psychology, Department of Psychology, University of Illinois, Urbana-Champaign

PUBLICATIONS

Books

Wasserman, Stanley and Katherine Faust

1994 *Social Network Analysis: Methods and Applications*. Cambridge, England and New York: Cambridge University Press. (Revised, reprinted edition, 1997).

Articles and Book Chapters

Faust, Katherine

2008 "Triadic configurations in limited choice sociometric networks: Empirical and theoretical results." *Social Networks*. 30:273-282.

Faust, Katherine

2007 "Very local structure in social networks." Pages 209-256 in *Sociological Methodology* 2007, volume 32 edited by Yu Xie. Cambridge, MA: Basil Blackwell.

Faust, Katherine and Miruna Petrescu-Prahova.

2007 "Discussion on the paper by Handcock, Raftery and Tantrum." *Journal of the Royal Statistical Society* 170(2):336-337.

Entwisle, Barbara, Katherine Faust, Ronald R. Rindfuss, and Toshiko Kaneda. 2007 "Networks and contexts: Variation in the structure of social ties." *American Journal of Sociology* 112(5):1495-1533.

Faust, Katherine

2006 "Comparing social networks: Size, density and local structure." *Metodološki Zvezki, Advances in Methodology and Statistics* 3(2):185-216.

Contractor, Noshir S., Stanley Wasserman, and Katherine Faust

2006 "Testing multi-theoretical multilevel hypotheses about organizational networks: An analytic framework and empirical example" *Academy of Management Review*, 31(3):681-703.

Faust, Katherine

2005 "Using correspondence analysis for joint displays of affiliation networks." Chapter 7, pages 117-147 in *Models and Methods in Social Network Analysis*, edited by Peter J. Carrington, John Scott, and Stanley Wasserman. New York: Cambridge University Press. (*Models and Methods in Social Network Analysis* received the 2006 ASA Mathematical Sociology Section Harrison White Book Award.)

Rindfuss, Ronald R., Aree Jampaklay, Barbara Entwisle, Yothin Sawangdee, Katherine Faust, and Pramote Prasartkul

2004 "Collection and analysis of social network data in Nang Rong, Thailand" Chapter 7, pages 175-200 in *Network Epidemiology: A Handbook For Survey Design and Data Collection*. Martina Morris (ed.). Oxford: Oxford University Press.

Skvoretz, John and Katherine Faust

2002 "Relations, species, and network structure." *Journal of Social Structure*.3(2). http://zeeb.library.cmu.edu:7850/JoSS/skvoretz/index.html

Faust, Katherine and John Skvoretz

2002 "Comparing networks across space and time, size and species." Pages 267-299 in *Sociological Methodology 2002*, volume 32 edited by Ross Stolzenberg. Cambridge, MA: Basil Blackwell. (Reprinted in Freeman, L. C. (Ed.) *Social Network Analysis*, Newbury Park: Sage.)

Faust, Katherine, Karin E. Willert, David D. Rowlee, and John Skvoretz 2002 "Scaling and statistical models for affiliation networks: Patterns of participation among Soviet politicians during the Brezhnev era." *Social Networks*. 24:231-259.

Faust, Katherine

2002 "Las redes sociales en las ciencias sociales y del comportamiento" ["Social networks in the social and behavioral sciences"] Chapter 1, pages 1-14 in Jorge Gil-Mendieta and Samuel Schmidt (eds.). *Análisis de Redes: Aplicaciones en Ciencias Sociales [Network Analysis: Applications in the Social Sciences]*. Mexico City: UNAM.

Faust, Katherine, Barbara Entwisle, Ronald Rindfuss, Stephen Walsh, and Yothin Sawangdee

1999 "Spatial arrangement of social and economic networks among villages in Nang Rong district, Thailand." *Social Networks*. 21(4):311-337.

Skvoretz, John and Katherine Faust

1999 "Logit models for affiliation networks." Pages 253-280 in *Sociological Methodology 1999*, volume 29 edited by Michael E. Sobel and Mark P. Becker. Cambridge, MA: Basil Blackwell.

Faust, Katherine

1997 "Centrality in affiliation networks." Social Networks. 19:157-191.

Skvoretz, John, Katherine Faust, and Thomas J. Fararo

1996 "Social structure, networks, and e-state structuralism models." *Journal of Mathematical Sociology*. 21:57-76. (Reprinted in: Doreian, Patrick and Frans Stokman 1997. *Evolution of Social Networks*. pages 73-92. Gordon and Breach.)

Faust, Katherine and Stanley Wasserman

1993 "Correlation and association models for studying measurements on ordinal

relations." Pages 177-215 in *Sociological Methodology 1993*, volume 23. edited by Peter V. Marsden. Cambridge, MA: Blackwell Publishers.

Faust, Katherine and Stanley Wasserman

1992 "Centrality and prestige: A review and synthesis." *Journal of Quantitative Anthropology* 4:23-78.

Faust, Katherine and Stanley Wasserman 1992 "Blockmodels: Interpretation and evaluation." *Social Networks* 14:5-61.

Anderson, Carolyn, Stanley Wasserman and Katherine Faust
1992 "Building stochastic blockmodels." *Social Networks* 14:137-161. (Reprinted in: John Scott (ed.) 2002 *Social Networks : Critical Concepts in Sociology*. London: Routledge.)

Wasserman, Stanley, Katherine Faust and Joseph Galaskiewicz 1990 "Correspondence and canonical analysis of relational data." *Journal of Mathematical Sociology* 1:11-64.

Wasserman, Stanley and Katherine Faust

1989 "Canonical analysis of the composition and structure of social networks." Pages 1-42 in *Sociological Methodology 1989*, volume 19 edited by CliffordC. Clogg. Cambridge, MA: Basil Blackwell.

Faust, Katherine

1988 "Comparison of methods for positional analysis: Structural and general equivalences." *Social Networks* 10:313-341.

Faust, Katherine and A. Kimball Romney 1986 "Comment on 'A cautionary note'." *Social Networks* 8:213.

Faust, Katherine and A. Kimball Romney

1985 "The effect of skewed distributions on matrix permutation tests." *The British Journal of Mathematical and Statistical Psychology* 38:152-160

Faust, Katherine and A. Kimball Romney

1985 "Does STRUCTURE find structure?: A critique of Burt's use of distance as a measure of structural equivalence." *Social Networks* 7:77-103.

Fielding, Gordon J., Mary E. Brenner and Katherine Faust 1985 "Typology for bus transit." *Transportation Research* 19A(3):269-278

Romney, A. Kimball and Katherine Faust

1982 "Predicting the structure of a communications network from recalled data." *Social Networks* 4:285-304

Book Reviews

Faust, Katherine

1999 "Review of Thomas Schweizer and Douglas R. White's *Kinship Networks and Exchange*." *Social Forces*. 78(2):826-828.

Faust, Katherine

1994 "Review of Shizuhiko Nishisato's *Elements of Dual Scaling: An Introduction to Practical Data Analysis.*" *Chance: New Directions for Statistics and Computing.* 7(3):42-45.

GRANTS AND CONTRACTS

"Social Networks and Migration" NIH/ consultant (B. Entwisle Principal Investigator) 4/1/06 to 4/30/08.

"Space, Networks and Social Influence Workshop." National Consortium On Violence Research (NCOVR) \$19,000 (George Tita, Katherine Faust, and Christopher Browning) 2006.

"Social Networks in Hollenbeck: Street Gangs and Community." Multi-Investigator Award, Academic Senate Council on research, Computing and Library Resources (CORCLR), University of California, Irvine. \$18,000 (George E. Tita, Elisa Bienenstock, and Katherine Faust). 07/01/2002 to 06/30/2003.

"Demographic Responses to a Changing Environment." NIH/ subcontract from UNC Chapel Hill. \$112,808. (R. Rindfuss Principal Investigator on the NIH grant). 04/1999 to 03/2004.

"Migration, Contraception, and Social Networks." NIH/ subcontract from UNC Chapel Hill. \$68,755. (B. Entwisle Principal Investigator on the NIH grant). 07/1999 to 06/2002

"The Social Side of Service Accessibility." MEASURE/ Evaluation Project, UNC Chapel Hill. \$7,600. (B. Entwisle Principal Investigator). 05/1999 to 04/2001.

"Computer Accessible Statistical Resources for Elementary Statistics for Sociologists." University of South Carolina, Provost's Instructional Innovation Grant. \$2,988 (K. Faust and S. A. Smith). 07/1999 to 06/2000.

"Affiliation Networks." University of South Carolina Research and Productive Scholarship Grant, \$2,958. 1994.

DPScOR Proposal Development Award, Dept. of Sociology, USC, 1989 through 1993

OTHER PAPERS

Faust, Katherine

1995 "Centrality in Affiliation Networks" in Martin G. Everett and Keith Rennolls (eds.) *Proceedings of The International Conference on Social Networks, Volume 1: Methodology*, pages 97-105. London: Greenwich University Press.

Faust, Katherine

1993 "It takes two to tango: Bipartite and bisexual graphs." Connections 16:30-33.

Fielding, Gordon J., M. E. Brenner, O. de la Rocha, T. T. Babitsky and K. Faust 1984 "Indicators and Peer Groups for Transit Performance Analysis." Report No. UMTA-CA-11-0026-2, UCI, Institute of Transportation Studies.

Faust, William L., Katherine Faust and William T. Jones

1983 "Implicit Presuppositions: An Exercise in Multidimensional Scaling and Hierarchical Clustering." (Humanities Working Paper No. 83) Division of the Humanities and Social Sciences, California Institute of Technology.

Fielding, Gordon, J. and Katherine Faust

1983 "Dimensions of Bus Performance for Peer Groups of Transit Agencies in Fiscal Years 1980 and 1981 using Section 15 Data." (Working Paper 83-5) University of California, Institute of Transportation Studies, ISSN 0193-5860.

Romney, A. Kimball and Katherine Faust

1982 "Predicting the Structure of a Communications Network from Recalled Data." U.C.I.-U.C.S.B. Preprints in Social Network Analysis, No. Six. (Published in *Social Networks* 1982).

Lave, Jean, Olivia de la Rocha, Katherine Faust, Michael Murtaugh and Michael Migalski 1982 "The Mature Practice of Arithmetic Problem Solving in the Daily Lives of Americans." Final report No. NIE-G-78-0194, University of California, School of Social Sciences.

INVITED LECTURES AND CONFERENCE PRESENTATIONS

Invited Lectures

"Triadic Structure in Social Networks." 2007 Social Network Analysis Seminars Seminar Two: Developments. University of Sheffield.

"Overview of Social Network Analysis" 2007 Symposia Series on Systems Science and Health "Network Analysis: Using Connections and Structures to Understand and Change Health Behaviors," (Office of Behavioral and Social Sciences Research National Institutes of Health, June 2007). A videocast of this talk is archived at the NIH website (see "Past Events" - "Special" at: <u>http://videocast.nih.gov/</u>). "Comparing Social Networks" 2005 Applied Statistics conference, Bled, Slovenia (K. Faust).

Conference Presentations

"A Theoretical Space for the Triad Census" International Sunbelt Social Network Conference XXVIII, St Pete Beach, Florida, 2008 (K. Faust).

"Triadic Structure in Social Networks Revisited: Observations and Expectations" American Sociological Association, Montreal, August 2006 (K. Faust).

"Very Local Structure in Social Networks" International Sunbelt Social Network Conference XXVI, Vancouver, 2006 (K. Faust).

"Spaced Out: The Spatial Dimensions Of Social Networks" International Sunbelt Social Network Conference XXV, Redondo Beach, February 2005 (George Tita and Katherine Faust).

"Network Change At Multiple Levels: Kinship And Helping Ties In Nang Rong, Thailand" International Sunbelt Social Network Conference XXV, Redondo Beach, February 2005 (Barbara Entwisle, Katherine Faust, and Ronald Rindfuss).

"Accounting for Social Network Variability Among Villages: Kinship and Economic Ties in Nang Rong, Thailand" International Sunbelt Social Network Conference February 12-16, 2003 (K. Faust, B. Entwisle, R. Rindfuss).

"Networks, Neighborhoods and Drive-bys: The social and spatial dimensions of ties linking gang members to community" American Sociological Association, August 2003 (G. E. Tita, K. Faust, E. Bienenstock).

"Who Helps? Household Change and Consequences for the Rice Harvest." Population Association of America, Atlanta, Georgia, May 2002 (B. Entwisle, J. Edmeades, K. Faust, and R. R. Rindfuss).

"Comparing Networks." International Social Network Conference, New Orleans, February 2002 (K. Faust and J. Skvoretz).

"Testing Multi-Level, Multi-Theoretical Hypotheses about Networks in 21st Century Organizational Forms: An Analytical Framework and Empirical Example." International Communication Association, Acapulco, June 2000 (N. Contractor, S. Wasserman and K. Faust).

"Comparing Networks Across Space, Time and Species" Festschrift for Linton Freeman, International Social Network Conference, Vancouver, April 2000 (K. Faust and J. Skvoretz). "Scaling and Statistical Models for Affiliation Networks: Coalition Formation among Soviet Politicians During the Brezhnev Era." Festschrift for A. K. Romney, Society for Cross-Cultural Research, New Orleans, February 2000 (Faust, Willert, Rowlee and Skvoretz).

"The Collection and Analysis of Social Network Data in Nang Rong, Thailand" Chiang Mai Conference on Partnership Networks, sponsored by IUSSP. Chiang Mai, Thailand, February 2000 (R. Rindfuss, Barbara Entwisle, K. Faust, P. Prasakurtl, Y. Swangdee)

"Social Networks and Sterilization" International Sunbelt Social Network Conference, Charleston, SC, February 1999 (B. Entwisle, J. Godley, R. R. Rindfuss, K. Faust). "Household Agricultural Networks and Migration in Nang Rong, Thailand" International Conference on Social Networks, May 1998 (K. Faust, B. Entwisle, and R. Rindfuss).

"A Correspondence Analysis of Items Measuring Functional Disability among the U.S. Elderly" Population Association of America, Washington D.C., March 1997 (V. Lamb and K. Faust).

"Spatial Arrangement of Social and Economic Networks of Villages in Nang Rong, Thailand" International Sunbelt Social Network Conference, San Diego, February 1997 (K. Faust, B. Entwisle, R. Rindfuss, and S. Walsh).

"Logit Models for Affiliation Networks." International Sunbelt Social Network Conference, San Diego, February 1997 (K. Faust and J. Skvoretz).

"Centrality in Two-mode Non-dyadic Networks" Classification Society of North America, Amherst, Massachusetts, June 1996 (K. Faust).

"Patterns of Health and Disablement Among the Elderly in The United States: A Correspondence Analysis of the AHEAD Data" International Research Network on Health Expectancy, Chicago, October 1995 (V. Lamb and K. Faust)

"Centrality in Affiliation Networks" 1995 International Conference on Social Networks, London, June. (K. Faust)

"Social Structure, Networks, and E-state Structuralism Models" 1995 International Conference on Social Networks (J. Skvoretz, K. Faust and T. Fararo) "Status Characteristics and Interesting Social Network Structures" 1994 Conference on Theory and Research on Group Processes, Los Angeles.

"Correspondence Analysis and Related Methods for Studying Measurements on Ordinal Relations" 1992 International Social Network Conference (K. Faust and S. Wasserman).

"Correspondence Analysis and Related Methods for Studying Measurements on Ordinal Relations" Irvine Research Unit in Mathematical Behavioral Sciences and National Science Foundation sponsored conference on Measurement Theory and Social Networks. August 1991, University of California, Irvine.

"Centrality and Prestige: A Review and Synthesis" 1991 Second European Conference on Social Network Analysis (K. Faust and S. Wasserman).

"Restricted Canonical Analysis of Network Structure and Composition" 1989 International Sunbelt Social Network Conference (K. Faust and S. Wasserman).

"Canonical Analysis of the Composition and Structure of Social Networks" 1988 Psychometric Meetings (S. Wasserman and K. Faust). "Canonical Analysis of the Structure and Composition of Social Networks" 1988 International Sunbelt Social Network Conference (K. Faust and S. Wasserman).

"Correspondence Analysis of Sociometric and Social Interaction Data" 1987 International Sunbelt Social Network Conference (K. Faust and S. Wasserman).

"Comparison of Two Models for Positional Analysis of Social Networks" 1986 International Sunbelt Social Network Conference (K. Faust).

"First Steps in a Theory of Network Data" 1985 International Sunbelt Social Network Conference (A. K. Romney and K. Faust).

"A Suggested Modification to Burt's use of Euclidean Distances in Structural Equivalence." 1983 International Sunbelt Social Network Conference, (A. K. Romney and K. Faust).

"Everyday Problem Solving Events." 1980 American Anthropological Association (M. Murtaugh, K. Faust and O. de la Rocha).

"Peasants and Potatoes: A Study in Cognitive Variability." 1977 American Anthropological Association (R. Bolton and K. Faust).

"Potato Names in a Peruvian Village." 1977 Southwestern Anthropological Association (K. Faust and R. Bolton).

PROFESSIONAL ACTIVITIES

College and University Service

University of California, Irvine

ADVANCE Equity Advisor, School of Social Sciences, 2007 – 2009 UCI Board on Undergraduate Scholarships Fellowships and Awards (BUSHFA) 2006 – School of Social Sciences, Executive Committee, 2003-2006

College and University Service continued

Institute for Mathematical Behavioral Sciences, Executive Committee, 2003-School of Social Sciences strategic planning committee 2006 Ad hoc committee to review the Associate Dean for Undergraduate Studies 2007

Sociology Department, Director of Undergraduate Studies, 2003-Sociology Department, Undergraduate Committee member, 2001-Sociology Department, Faculty Advisor for Sociology Theme House, 2001 – 2008 Sociology Department, Social Networks cluster organizer 2001 -Sociology Department, Methods and Statistics cluster organizer, 2003 - 2008 Sociology Department, Robin Williams undergraduate paper award selection committee, 2006, 2007, 2008

University of South Carolina

Faculty Senator, 1998 - 2001 Phi Beta Kappa, council member, 1997- 2000 C.L.A.S.S. Award Review Panel, College of Liberal Arts, 1997

Assistant Department Chair, Dept. of Sociology, 1996 - 1999 Tenure, Promotion, and Reappointment Committee, Dept. of Sociology, 1993- 2001 Executive Committee, Department of Sociology, 1989-1991, 1995-1996, 1996-1999 Social Structures Exam Committee, Department of Sociology, 1989 - 2001 Colloquium Coordinator, Department of Sociology, 1989-1991, 1995-1996 Undergraduate Committee, Department of Sociology, 1991-1994; 2000 - 2001 Ethics Committee, Department of Sociology, 2000 - 2001

Professional Service

International Network for Social Network Analysis Treasurer (elected), 2003-2006 International Network for Social Network Analysis Board of Directors 2003 --NSF Sociology review panel 2004-2006 Council Member (elected) ASA Mathematical Sociology Section, ASA, 1996-1997, 2009-. Council Member (elected) ASA Methodology Section, ASA, 2001-2004 Freeman Award selection committee, INSNA, 2002 Reviewer for Journals (last five years): *American Sociological Review, American Journal of* Sociology Social Forces, Social Theory, Sociological Methodology, Proceedings of the

Sociology, Social Forces, Social Theory, Sociological Methodology, Proceedings of the National Academy of Sciences, Demography, Social Problems, Social Networks, American Political Science Review, Journal of Mathematical Sociology, Psychological Methods, Sociological Methods and Research, Psychometrika, Journal of Politics, Journal of Social Structure, Encyclopedia of Social Measurement, Cambridge University Press.

Reviewer for National Science Foundation, reviewer and member of POWRE panel (2000).

Editorial

Editorial Board, Social Networks, 2003 –
Editorial Board, Contemporary Sociology 2005-Editorial Board, Sociological Methodology, 2002 –2005
Co-editor of Connections, Journal of the International Network for Social Network Analysis, 1993 - 1997.

Conferences Organized

Program co-organizer, International Sunbelt Social Network Conference, 1991; 1996; 1999, and 2005.

Conference Sessions Organized

"Comparison of Various Structural Models for the Analysis of Social Network Data." International Social Network Conference, 1985 (K. Faust, J. P. Boyd and A. K. Romney)

"Structural Similarity: Models and Applications" International Social Network Conference, 1987

"Models for Analyzing Social Network Data" International Social Network Conference, 1988 (K. Faust and S. Wasserman)

"Statistics and Models" International Social Network Conference, 1994.

"Social Networks" and "Social Networks: Personal Networks" American Sociological Association, 1998.

Professional Memberships

American Sociological Association International Network for Social Network Analysis Sigma Xi

HONORS AND AWARDS

Most Involved Faculty Sponsor, Arroyo Vista Theme House, 2007 Sigma Xi, University of South Carolina Chancellor's Patent Fund Grant, University of California, Irvine, 1983 Phi Beta Kappa, Pomona College 1976

COURSES TAUGHT

Undergraduate

Probability and Statistics Elementary Statistics for Sociologists Social Networks Sociology Majors Seminar Introduction to Sociology Introduction to Survey Research

Graduate

Graduate Statistics I Graduate Statistics II Analysis of Social Network Data Social Network Methods Quantitative Analysis: Log-linear Models Quantitative Analysis: Categorical Data Critical Survey of Research Methods Social Structures: Social Networks Social Network Analysis Scaling and Measurement Methods Statistical Models for Social Networks

Invited Instructional Seminars and Workshops

- Introduction to Social Network Analysis (ICPSR and The Odum Institute, University of North Carolina, Chapel Hill, July 2004)
- Introduction to Social Network Analysis (The Odum Institute, University of North Carolina, Chapel Hill, November 2003)
- Introduction to Social Network Analysis (ICPSR and The Odum Institute, University of North Carolina, Chapel Hill, July 2003)
- Social Network Analysis. Methods and Applications (ICPSR/ ASA, Washington, DC, August 2000).

Social Network Analysis. Methods and Applications (ICPSR/ ASA, Chicago, August 1999).

Social Network Analysis. (Carolina Population Center, University of North Carolina, May/June 1997)

Social Network Methodology. (Catholic University, Lima, Peru, March 1996).

Theoretically Motivated Social Network Analysis. (Netherlands Institute for Advanced Study, Wassenaar, The Netherlands, July 1995).

GRADUATE STUDENTS SUPERVISED

Ph.D.

Chair

Karin Willert, 2000 (University of South Carolina)

Committee Member

Miruna Petrescu-Prahova, expected 2008 (UC Irvine) Jennifer Chandler, 2007 (UC Irvine) Mourad Dakhli, 2002 (University of South Carolina) Gretchen Koehler, 2001 (University of South Carolina) Michael Gross, 2000 (University of South Carolina) Cathy Beattie, 2000 (University of South Carolina) Merrily McGowan, 1997 (University of South Carolina) Tracy Burkett, 1997 (University of South Carolina) Rubina Mamdani, 1994 (University of South Carolina) Doug Singh, 1994 (University of South Carolina)

Examiner

Andrea Knecht, 2007 (Utrecht University) Dean Lusher, 2006 (University of Melbourne) Peter Cliffort Elliott, 1999 (University of Melbourne)

M.A.

Chair

Ann Kim, 2006 (UC Irvine) Zoya Gubernskaya, 2006 (UC Irvine) Amy Burdette, 2001 (University of South Carolina) Mary C. Still, 1996 (University of South Carolina) Karin Willert, 1996 (University of South Carolina) Shannon Morrison, 1994 (University of South Carolina) Shigeko Kawakubo, 1994 (University of South Carolina) Gini Finelli, 1993 (University of South Carolina)

Committee Member

Jenny Godley, 1998 (University of North Carolina) Jennifer Stewart, 1995 (University of South Carolina) Shawn Corn, 1992 (University of South Carolina) Greg Cowan, 1991 (University of South Carolina)