

CURRICULUM VITAE

Noah E. Friedkin

PERSONAL DATA

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EDUCATION

Ph.D. The University of Chicago, 1977
B.A. The University of Chicago, 1969

POSITIONS

Chair, Department of Sociology, University of California (UC), Santa Barbara, 2003- 2005
Full Professor, Department of Sociology, UC, Santa Barbara, 1997-
Assistant-Full Professor, Departments of Sociology and Education, UC, Santa Barbara, 1978-97
Research Associate, Education, Finance and Productivity Center, University of Chicago, 1977-78

AREAS OF SPECIALIZATION

Social Networks, Influence Systems, Social Psychology, Complex Organizations

MEMBERSHIPS

Sociological Research Association (honorary society, elected membership)
American Sociological Association
American Association for the Advancement of Science

AFFILIATIONS

Center for Control, Dynamical Systems and Computation, College of Engineering, UC Santa Barbara
IGERT Network Science, UC Santa Barbara
Broom Center for Demography, UC Santa Barbara
Department of Communication, UC Santa Barbara

EDITORIAL APPOINTMENTS

Editor-in-Chief, *Journal of Mathematical Sociology*, 2016-
Associate Editor, *IEEE Transactions on Network Science and Engineering*, 2015-2017
Editorial Board, *Social Psychology Quarterly*, 2007-2009
Editorial Board, *Journal of Mathematical Sociology*, 2001-2015
Co-Editor, Papers in Honor of Linton C. Freeman, *Social Networks*, Volume 24, October 2002
Editorial Board, *American Sociological Review*, 1998-2000
Editorial Board, *Current Research in Social Psychology*, 1995-2000
Editorial Board, *Social Psychology Quarterly*, 1993-1996
Consulting Editor, *American Journal of Sociology*, 1992-1994

CURRENT GRANTS

Co-PI, ARO, MURI Program, W911NF-15-1-0577, QUANTA: Quantitative Network-based
Models of Adaptive Team Behavior, Consortium of UCSB (PI Ambuj Singh, Co-PI Francesco Bullo,
Co-PI Noah Friedkin), MIT, Northwestern, and USC. \$6.25M, 8/15-7/20.
Co-PI, UCOP, LFR-18-547591, Political Conflict and Stability in Dynamic Networks, Consortium of UCLA (PI
Arthur Stein, Co-PI Robert Trager), UCSB (Co-PI Noah Friedkin), LANL (Co-PI Sara Del Valle), UCSD
(Co-PI David Meyer), and UCB (Co-PI Alia Matanock). \$3M, 03/18-02/21.

AWARDS & HONORS

James S. Coleman Distinguished Career Achievement Award,
Mathematical Sociology Section, American Sociological Association, 2020
AAAS Fellow, 2017
Harrison White Outstanding Book Award, *Social Influence Network Theory*,
Mathematical Sociology Section, American Sociological Association, 2013
Chair, Mathematical Sociology Section, American Sociological Association, 2011
Elected Member, Sociological Research Association, 2005
Chair, Mathematical Sociology Section, American Sociological Association, 2001
Best Book in Mathematical Sociology, *A Structural Theory of Social Influence*,
Mathematical Sociology Section, American Sociological Association, 1999.
Spencer Fellow of the National Academy of Education, 1980-83

PUBLICATIONS

Books

Friedkin, N.E and E.C. Johnsen. 2011. *Social Influence Network Theory: A Sociological Examination of Small Group Dynamics*. New York: Cambridge University Press. **Harrison White Outstanding Book Award, Mathematical Sociology Section, American Sociological Association, 2013**

Friedkin, N. E. 1998. *A Structural Theory of Social Influence*. New York: Cambridge University Press. **Best Book in Mathematical Sociology Award, Mathematical Sociology Section, American Sociological Association, 1999.**

Articles

- O. Askarisichani, A. Singh, F. Bullo, and N. E. Friedkin. The 1995-2018 Global Evolution of the Network of Amicable and Hostile Relations Among Nation-States. *Nature Communications Physics*, 2020.
- N. E. Friedkin, A. V. Proskurnikov. Generalized Markovian Quantity Distribution Systems: Social Science Applications. *Sociological Science*, 2020.
- P. A. Cisneros-Velarde, N. E. Friedkin, A. V. Proskurnikov, and F. Bullo, Structural Balance via Gradient Flows over Signed Graphs, *IEEE Transactions on Automatic Control*, 2020.
- P. Jia, N. E. Friedkin, and F. Bullo, Opinion Dynamics and Social Power Evolution: A Single-Timescale Model. *IEEE Transactions on Control of Network Systems*, 2019
- W. Mei, P. Cisneros-Velarde, G. Chen, N. E. Friedkin, and F. Bullo. Dynamic Social Balance and Convergent Appraisals via Homophily and Influence Mechanisms. *Automatica*, 110:108580, 2019.
- N. E. Friedkin, A. V. Proskurnikov, and F. Bullo. 2019. Positive Contagion and the Macrostructures of Generalized Balance. *Network Science*, pp 1-14.
- N. E. Friedkin, W. Mei, A. V. Proskurnikov, and F. Bullo. 2019. Mathematical Structures in Group Decision-Making on Resource Allocation Distributions. *Scientific Reports*, 9(1):1377
- G. Chen, X. Duan, N. E. Friedkin, and F. Bullo. 2019. Social Power Dynamics over Switching and Stochastic Influence Networks. *IEEE Transactions on Automatic Control*, 64(2):582-597.
- O. Askarisichani, J. Ng Lane, F. Bullo, N. E. Friedkin, A. K. Singh, and B. Uzzi. 2019. Structural Balance Emerges and Explains Performance in Risky Decision-Making. *Nature Communications*, 10(2648).
- S. Mohagheghi, P. Agharkar, F. Bullo, and N. E. Friedkin. 2019. Multi-Group Connectivity Structures and their Implications. *Network Science*, pp. 1-17.
- W. Mei, N. E. Friedkin, K. Lewis, and F. Bullo. 2018. Dynamic Models of Appraisal Networks Explaining Collective Learning. *IEEE Transactions on Automatic Control*, 63(9):2898-2912.
- F. Bullo and N. E. Friedkin. 2018. *Perspectives on Network Systems and Mathematical Sociology*. In T. Basar, editor, *Uncertainty in Complex Networked Systems: In Honor of Roberto Tempo*, pages 399-417. Springer.
- Friedkin, N.E. and F. Bullo. 2017. How Truth Wins along Issue Sequences. *Proceedings of the National Academy of Sciences 114*: 11380-11385.
- Rawlings, C. and N.E. Friedkin. 2017. The Structural Balance Theory of Sentiment Networks. *American Journal of Sociology* 123: 510-548.

- Proskurikov, A.V., R. Tempo, M. Cao, and N.E. Friedkin. 2017. Opinion Evolution in Time-Varying Social Influence Networks with Prejudiced Agents. *IFAC PapersOnline* 50-1, 11896-11901.
- Jia, P., N.E. Friedkin, and F. Bullo. 2017. Opinion Dynamics and Social Power Evolution over Reducible Influence Networks. *SIAM Journal on Control and Optimization* 55:1280-1301.
- Parsegov, S.E., A.V. Proskurnikov, R. Tempo, and N.E. Friedkin. 2017. Novel Multidimensional Models of Opinion Dynamics in Social Networks. *IEEE Transactions on Automatic Control* 62: 2270-2285.
- Friedkin, N.E., A.V. Proskurnikov, R. Tempo, and S. E. Parsegov. 2016. Network Science on Belief System Dynamics under Logic Constraints. *Science* 354 (6310): 323-326.
- P. Jia, N. E. Friedkin, and F. Bullo. 2016. The Coevolution of Appraisal and Influence Networks leads to Structural Balance. *IEEE Transactions on Network Science and Engineering*, 3(4): 286-298.
- Friedkin, N.E., P. Jia, and F. Bullo, F. 2016. A Theory of the Evolution of Social Power: Natural Trajectories of Interpersonal Influence Systems along Issue Sequences. *Sociological Science* 3: 444-472.
- Jia, P., N.E. Friedkin and F. Bullo. 2016. The Coevolution of Appraisal and Influence Networks leads to Structural Balance. *IEEE Transactions on Network Science and Engineering*, 3: 286-298.
- Friedkin, N. E. 2015. The Problem of Social Control and Coordination of Complex Systems in Sociology: A Look at the Community Cleavage Problem. *IEEE Control Systems*, June: 40-51.
- Jia, P., Mirtabatabaei A., N.E. Friedkin and F. Bullo. 2015. Opinion Dynamics and the Evolution of Social Power in Influence Networks. *SIAM Review* 57: 367-97
- Friedkin, N.E. 2015. Scale-Free Interpersonal Influences on Opinions in Complex Systems. *Journal of Mathematical Sociology* 39: 168-173.
- Friedkin, N.E. 2015. Models of Influence in Networks. Pp. 659-666 in James D. Wright, editor, *International Encyclopedia of the Social & Behavioral Science*, 2nd edition. Oxford: Elsevier.
- Friedkin, N.E. 2014. Social Justice in Local Systems of Interpersonal Influence. Pp. 229-242 in *Handbook of the Social Psychology of Inequality*, edited by J. McLeod, E. Lawler, and M. Schwalbe. Springer, Dordrecht.
- Friedkin, N.E. and E.C. Johnsen. 2014. Two Steps to Obfuscation. *Social Networks* 39: 12-13.
- Childress C.C. and N.E. Friedkin. 2012. Cultural Reception and Production. *American Sociological Review* 77: 45-68.
- Friedkin, N.E. 2011. Spine Segments in Small World Networks. *Social Networks* 33:88-97.
- Friedkin, N.E. 2011. A Formal Theory of Reflected Appraisals in the Evolution of Power. *Administrative Science Quarterly* 56: 501-529.
- Kalkhoff, W., N.E. Friedkin and E.C. Johnsen. 2010. Status, Networks, and Opinions: A Modular Integration of Two Theories. *Advances in Group Processes* 27: 1-38.
- Friedkin, N.E. 2010. A Multilevel Event History Model of Social Diffusion: Medical Innovation Revisited. *Journal of Mathematical Sociology* 34:146-155.
- Friedkin, N.E. 2010. The Attitude-Behavior Linkage in Behavioral Cascades. *Social Psychology Quarterly* 73: 196-213.
- Friedkin, N.E. 2009. Jaccard-Spline Index of Structural Proximity in Contact Networks. *Social Networks* 31: 76-84.
- Friedkin, N.E. 2004. Social Cohesion. *Annual Review of Sociology* 30: 409-25.
- Friedkin, N.E. 2004. Exchange Networks. *Encyclopedia of Social Theory*, edited by George Ritzer, Sage.
- Friedkin, N.E. and E.C. Johnsen. 2003. Attitude Change, Affect Control, and Expectation States in the Formation of Influence Networks. *Advances in Group Processes* 20: 1-29.
- Friedkin, N.E. 2003. Social Influence Network Theory: Toward a Science of Strategic Modification of Interpersonal Influence Systems. Pp. 89-100 in *Dynamic Social Network Modeling and Analysis*, edited by Ronald Breiger, Kathleen Carley, and Philippa Pattison. *National Academy of Sciences/National Research Council Committee on Human Factors*. Washington, D.C.
- Friedkin, N.E. and D. Krackhardt. 2002. Festschrift for Linton C. Freeman: Introduction. *Social Networks* 24: 311-314.
- Friedkin, N.E. and E.C. Johnsen. 2002. Control Loss and Fayol's Gangplanks. *Social Networks* 24: 395-406.
- Bourgeois, M. and N.E. Friedkin. 2001. The Distant Core: Social Solidarity, Social Distance, and Interpersonal Ties. *Social Networks* 23: 245-260.
- Friedkin, N.E. 2001. Norm Formation in Social Influence Networks. *Social Networks* 23:167-189.
- Friedkin, N. E. 1999. Choice Shift and Group Polarization. *American Sociological Review* 64: 856-75.
- Friedkin, N.E. and E.C. Johnsen. 1999. Social Influence Networks and Opinion Change. *Advances in Group Processes* 16: 1-29.
- Bonacich, P. and N.E. Friedkin. 1998. Unequally Valued Exchange Relations. *Social Psychology Quarterly* 61: 160-171.
- Friedkin, N.E. and S. L. Thomas. 1997. Social Positions in Schooling.

- Sociology of Education* 70: 239-255.
- Friedkin, N.E. and E. C. Johnsen. 1997. Social Positions in Influence Networks. *Social Networks* 19:209-222.
- Friedkin, N.E. 1995. The Incidence of Exchange Networks. *Social Psychology Quarterly* 58: 213-222.
- Friedkin, N.E. and M. S. Slater. 1994. School Leadership and Performance: A Social Network Approach. *Sociology of Education* 67: 139-157.
- Friedkin, N.E. 1993. Structural Bases of Interpersonal Influence in Groups. *American Sociological Review* 58: 861-872.
- Friedkin, N.E. 1993. An Expected Value Model of Social Exchange Outcomes. *Advances in Group Processes* 10: 163-193.
- Marsden, P.V. and N.E. Friedkin. 1993. Network Studies of Social Influence. *Sociological Methods & Research* 22: 125-149. Reprinted in *Advances in Social and Behavioral Science from Social Network Analysis*, Joseph Galaskiewicz and Stanley Wasserman (Eds.). Newbury Park, CA: Sage, 1994.
- Friedkin, N.E. 1992. An Expected Value Model of Social Power: Predictions for Selected Exchange Networks. *Social Networks* 14: 213-229.
- Friedkin, N.E.1991. Theoretical Foundations for Centrality Measures. *American Journal of Sociology* 96: 1478-1504.
- Friedkin, N.E.1990. Social Networks in Structural Equation Models. *Social Psychology Quarterly* 53: 316-328.
- Friedkin, N.E.1990. A Guttman Scale for the Strength of an Interpersonal Tie. *Social Networks* 12: 239-252.
- Friedkin, N.E. and E.C. Johnsen. 1990. Social Influence and Opinions. *Journal of Mathematical Sociology* 15: 193-205.
- Friedkin, N.E. and K.S. Cook. 1990. Peer Group Influence. *Sociological Methods & Research* 19: 122-143.
- Friedkin, N.E.1989. The Production of Consensus. Jacob Marschak Colloquium Abstract. *Mathematical Social Sciences* 18: 197-98.
- Friedkin, N.E. and J. Necochea. 1988. School System Size and Performance: A Contingency Perspective. *Educational Evaluation and Policy Analysis* 10: 237-249.
- Bidwell, C.E. and N.E. Friedkin. 1988. Sociology of Education. Pp. 449-71 in *Handbook of Sociology*, Neil J. Smelser (Ed.). Beverly Hills, CA: Sage.
- Friedkin, N.E.1986. A Formal Theory of Social Power. *Journal of Mathematical Sociology* 12: 103-126.
- Friedkin, N.E. and M.J. Simpson. 1985. Effects of Competition on Members' Identification with Their Subunits. *Administrative Science Quarterly* 30: 377-394.
- Friedkin, N.E.1984. Structural Cohesion and Equivalence Explanations of Social Homogeneity. *Sociological Methods & Research* 12: 235-261.
- Friedkin, N.E.1983. Horizons of Observability and Limits of Informal Control in Organizations. *Social Forces* 62: 54-77. Reprinted in *General Systems* 28: 77-100.
- Friedkin, N.E.1982. Information Flow Through Strong and Weak Ties in Intraorganizational Social Networks. *Social Networks* 3: 273-285.
- Friedkin, N.E.1981. The Development of Structure in Random Networks: Analysis of the Effects of Increasing Network Density on Five Measures of Structure. *Social Networks* 3: 41-52.
- Friedkin, N.E.1980. A Test of Structural Features of Granovetter's Strength of Weak Ties Theory. *Social Networks* 2: 411-422.
- Friedkin, N.E. 1978. University Social Structure and Social Networks among Scientists. *American Journal of Sociology* 83:1444-1465.