

Social Network Analysis (Graduates)

Text: 1) Wasserman, S, and K Faust. 1994. *Social Network Analysis: Methods and Applications*: Cambridge University Press.

Software: Ucinet and NetDraw

Data:

- 1) <http://www.uoregon.edu/~vburris/whorules/data.htm> (Professor Val Burris Data Archive)
- 2) <http://www.princeton.edu/~ina/data/index.html> (International Network Archive)
- 3) <http://www.stanford.edu/group/sonia/dataSources/> (Longitudinal network data sources)

Introduction

Wasserman, S, and K Faust. 1994. Chapter 1.

Watts, DJ. 2004. "The New science of networks." *Annual review of sociology* 30:243-270.

Emirbayer, M, and J Goodwin. 1994. "Network Analysis, Culture, and the Problem of Agency." *American Journal of Sociology* 99:1411.

Ansell, CK. 1997. "Symbolic Networks: The Realignment of the French Working Class, 1887–1894." *American Journal of Sociology* 103:359-90.

Emirbayer, M. 1997. "Manifesto for a Relational Sociology 1." *American Journal of Sociology* 103:281-317.

Knoke, D. 1990. *Political Networks: The Structural Perspective*: Cambridge University Press. Chapter 1

Data, Graph, Matrices: Mathematical Backgrounds

Wasserman, S, and K Faust. 1994. Chapter 2, 3, and 4

Social capital

Lin, N. 2001. *Social Capital: A Theory of Social Structure and Action*: Cambridge University Press. Chapter 1, 2, 3, 4, and 5.

Putnam, R. 2001. "Social Capital: Measurement and Consequences." *Canadian Journal of Policy Research* 136 (Recommended)

Coleman, JS. 1987. "Norms as Social Capital." *Economic Imperialism*:133-55 (Recommended)

Portes, A. 1998. "Social Capital: Its Origins and Applications in Modern Sociology." *Annual Reviews in Sociology* 24:1-24 (Recommended)

Gambetta, D. 2000. "Can we trust trust." *Trust: Making and Breaking Cooperative Relations*, Electronic edition, Department of Sociology, University of Oxford: 213-237 (Recommended).

Marsden, PV. 1987. "Core Discussion Networks of Americans." *American Sociological Review* 52:122-131 (Recommended)

Burt, RS. 2000. "The Network Structure of Social Capital." *Research in Organizational Behavior* 22:345-423 (Recommended)

Centrality and Centralization

Wasserman, S, and K Faust. 1994. Chapter 5

Bonacich, P. 1987. "Power and Centrality: A Family of Measures." *American Journal of Sociology* 92:1170-82.

Hanneman, RA. 2001. "The prestige of Ph. D. granting departments of sociology: a simple network approach." *Connections* 24:68-77.

Brass, DJ. 1984. "Being in the right place: A structural analysis of individual influence in an organization." *Administrative Science Quarterly* 29:518-539 (Recommended)

Cook, KS, RM Emerson, and MR Gillmore. 1983. "The Distribution of Power in Exchange Networks: Theory and Experimental Results." *American Journal of Sociology* 89:275.

Brokerage

- Uzzi, B. 1996. "The Sources and Consequences of Embeddedness for the Economic Performance of Organizations: The Network Effect." *American Sociological Review* 61: 674-698.
- Burt, RS. 1992. *Structural Holes: The Social Structure of Competition*: Harvard University Press. Chapter 1
- Diani, M. 2003. "Leaders or Brokers? Positions and Influence in Social Movement Networks." In *Social Movements and Networks: Relational Approaches to Collective Action*. Edited by M Diani and D McAdam. Oxford University Press.

Subgroups

- Wasserman, S, and K Faust. 1994, Chapter 7.
- Freeman, LC. 1992. "The Sociological Concept of Group: An Empirical Test of Two Models." *American Journal of Sociology* 98:152.
- Burt, RS. 1987. "Social Contagion and Innovation: Cohesion versus Structural Equivalence." *American Journal of Sociology* 92:1287.

Blockmodeling

- Wasserman, S, and K Faust. 1994. Chapter 9, 10, 11, and 12
- Snyder, D, and EL Kick. 1979. "Structural Position in the World System and Economic Growth, 1955-1970." *American Journal of Sociology* 84: 1096-1126.
- DiMaggio, PJ. 1986. "Structural analysis of organizational fields: A blockmodel approach." *Research in Organizational Behavior* 8:35-370.
- Anheier, HK, J Gerhards, and FP Romo. 1995. "Forms of Capital and Social Structure in Cultural Fields: Examining Bourdieu's Social Topography." *American Journal of Sociology* 100:859.
- Gerlach, ML. 1992. "The Japanese Corporate Network: A Blockmodel Analysis." *Administrative Science Quarterly* 37:105-139. (Recommended)

Generalized Blockmodeling

- Doreian, P, V Batagelj, and A Ferligoj. 2005. *Generalized Blockmodeling*: Cambridge University Press.

Two Modes

- Wasserman, S, and K Faust. 1994. Chapter 8
- Breiger, RL. 1974. "Duality of Persons and Groups." *Social Forces* 53:181.
- Sewell, Jr, WH. 1992. "A Theory of Structure: Duality, Agency, and Transformation." *American Journal of Sociology* 98:1.
- Borgatti, SP, and MG Everett. 1997. "Network analysis of 2-mode data." *Social Networks* 19:243-269.
- Doreian, P, V Batagelj, and A Ferligoj. 2004. "Generalized blockmodeling of two-mode network data." *Social Networks* 26:29-53.
- Roberts, JM. 2000. "Correspondence analysis of two-mode network data." *Social Networks* 22:65-72.
- Hanneman RA and M Riddle. 2005. *Introduction to Social Network Methods*. Chapter 17.

Statistical Analysis based on Dyads and Triads

- Hanneman RA and M Riddle. 2005. *Introduction to Social Network Methods*. Chapter 18.
- Burris, V. 2005. "Interlocking Directorates and Political Cohesion among Corporate Elites." *American Journal of Sociology* 111(1).
- Holland, PW, and S Leinhardt. 1981. "An exponential family of probability distributions for directed graphs." *Journal of the American Statistical Association* 76:33-65.
- Wasserman, S, and K Faust. 1994. Chapter 13, 14, 15, and 16
- Wasserman, S, and P Pattison. 1996. "Logit models and logistic regressions for social networks: I. An introduction to Markov graphs and p*." *Psychometrika* 61:401-425.

Network Typology

- Granovetter, MS. 1973. "The Strength of Weak Ties." *American Journal of Sociology* 78:1360.
- Ball, P. 2004. *Critical Mass: How One Thing Leads to Another*: Farrar, Straus and Giroux. Chapter 15 and 16.
- Barabási, AL. 2003. *Linked: how everything is connected to everything else and what it means for business, science, and everyday life*. Plume.
- Moody, J. 2004. "The Structure of a Social Science Collaboration Network: Disciplinary Cohesion from 1963 to 1999." *American Sociological Review* 69:213-238.
- Kogut, B, and G Walker. 2001. "The small world of Germany and the durability of national networks." *American sociological review* 66:317-335.

Dynamics on Network

- Watts, DJ. 1999. "Networks, Dynamics, and the Small-World Phenomenon." *American Journal of Sociology* 105:493-527.
- Gladwell, M. 2000. *The Tipping Point: How Little Things Can Make a Big Difference*: Little, Brown and Company.
- Gould, R. 1991. "Multiple Networks and Mobilization in the Paris Commune, 1871." *American Sociological Review* 56: 716-729.
- Hedstrom, P, R Sandell, and C Stern. 2000. "Mesolevel Networks and the Diffusion of Social Movements: The Case of the Swedish Social Democratic Party." *American Journal of Sociology* 106:145-172.

Longitudinal Analysis

- Smith, DA, and DR White. 1991. "Structure and Dynamics of the Global Economy: Network Analysis of International Trade 1965-1980." *Social Forces* 70:857.
- Gulati, R. 1995. "Social Structure and Alliance Formation Patterns: A Longitudinal Analysis." *Administrative Science Quarterly* 40:619-652.
- Carroll, WK, and M Shaw. 2001. "Consolidating a Neoliberal Policy Bloc in Canada, 1976 to 1996." *Canadian Public Policy—Analyse DE Politiques* 27.
- Mizruchi, MS, and LB Stearns. 1988. "A Longitudinal Study of the Formation of Interlocking Directorates." *Administrative Science Quarterly* 33: 193-210.
- Kim, S, and EH Shin. 2002. "Longitudinal Analysis of Globalization and Regionalization in International Trade: A Social Network Approach, A." *Social Forces* 81:445. (Optional)

Network Dynamics

- Powell, WW, DR White, KW Koput, and J Owen-Smith. 2005. "Network Dynamics and Field Evolution: The Growth of Interorganizational Collaboration in the Life Sciences." *American Journal of Sociology* 110:1132-1205.
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- Carley, KM. 2003. "Dynamic Network Analysis." In *Dynamic Social Network Modeling and Analysis: Workshop Summary and Papers*: 113-145.

Stochastic Modeling of Influence and Selection

- Leenders, RTAJ. 1996. "Longitudinal Behavior of Network Structure and Actor Attributes: Modeling Interdependence of Contagion and Selection." *Evolution of Social Networks*:165-84.
- Steglich, C, TAB Snijders, and P West. 2006. "Applying SIENA: An Illustrative Analysis of the Coevolution of Adolescents' Friendship Networks, Taste in Music, and Alcohol Consumption." *Methodology* 2:48-56.

- Steglich, C, TAB Snijders, and M Pearson. 2004. "Dynamic networks and behavior: Separating selection from influence." Submitted for Publication.
- Van De Bunt, GG, MAJ Van Duijn, and TAB Snijders. 1999. "Friendship Networks Through Time: An Actor-Oriented Dynamic Statistical Network Model." *Computational & Mathematical Organization Theory* 5:167-192.
- Van de Bunt, GG, RPM Wittek, and MC de Klepper. 2005. "The Evolution of Intra-Organizational Trust Networks: The Case of a German Paper Factory: An Empirical Test of Six Trust Mechanisms." *International Sociology* 20:339.

Visualization

- Freeman, LC. 2000. "Visualizing Social Networks." *Journal of Social Structure* 1:4.
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