

VITA/BIO: DOUGLAS R. WHITE, Social Science Professor, IMBS, UC-Irvine

***Complex Network Dynamics, Foundations of Social Theory, Ethnosociology, Structural Ethnohistory, Political Economy, Global Change, Mathematical Models/Computing, Social Demography and Longitudinal Field Sites***  
*Kinship and Marriage Networks, Migration, Gender, Exchange, Indian North America, Mesoamerica, Europe, Old World*

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**Wikisite:** <http://intersci.ss.uci.edu/wiki> (Founder, WikiSysop)

**Personal data:** born 1942, married, 1 child

#### ***Awards, Fellowships, Degrees***

Viviana Zelizer Distinguished Scholarship Award 2007, Best Paper in Economic Sociology (2005-2006), with Walter Powell, Ken Koput and Jason Owen-Smith, American Sociological Association  
Outstanding Article award 2004, Mathematical Sociology, with James Moody, American Sociological Association, Fellow, Leibnitz Program (Thomas Schweizer, head) German Research Society, University of Köln 1996-7-8.  
Bourse de Haute Niveau, Ministry of Research and Technology, Laboratoire d'Analyse Secondaire et des Méthodes Appliquées à la Sociologie. Paris, 1991-92.  
Distinguished Senior U.S. Scientist Award, Alexander von Humboldt Foundation, Ethnosociologie, 1990-92.  
Fellow, Center for Advanced Studies, Western Behavioral Science Institute, 1981-84.  
Ph.D. University of Minnesota, Anthropology and Social Theory, 1969.  
Predoctoral Fellow, National Institute of Mental Health, 1964-67.  
Visiting Fellow, Anthropology and Mathematical Sociology, Columbia, 1965-66.  
CIC Traveling Scholar, Anthropology/Mathematical Psychology, Michigan, 1964-65.  
NSF Cooperative Fellow. University of Minnesota, 1963-64.  
American Field Service Scholarship, Madrid, school year 1958-59.

#### ***Academic***

Professor, UC Irvine. 1982-present, Social Networks. 1989-present, Anthropology. 1994-present. Institute for Mathematical Behavioral Science. 1979-99, Social Relations. 1979-89, Comparative Culture & Social Science. Associate Professor, 1976-79. Comparative Culture and Social Sciences, UC Irvine.  
Assistant/Associate Professor, 1969-74/1974-76. Department of Anthropology, University of Pittsburgh.

#### ***Concurrent***

External Faculty. 2004-2010. Santa Fe Institute (renewed every 3 years).  
Visiting Professor. 1999-2003 (1 mo@yr.) Ecole des Hautes Etudes en Sciences Sociales (EHESS). Paris.  
Invited Researcher. 2001 (1 mo.). Institut National des Etudes Demographiques. Paris.  
Co-Responsible Scientifique, 1998-. Scientific Workshops and Informatics. Ph.D. program in Social Spaces, Relations, Configurations. Laboratoire de Demographie Historique, EHESS. Paris.  
Directeur d'Etudes Associé, 1991-92. Maison des Sciences de l'Homme, Paris.  
Alexander von Humboldt Research Award, 1990-92. Institut für Völkerkunde, University of Köln.  
Instructor, 1974. ICPSR. Research Methodology Summer Program, University of Michigan.  
Visiting Associate Professor, Anthropology, 1974-75. University of Texas-Austin.  
Co-Director, Methodology. 1971-73. Language Attitudes Research Project, Finance Ministry, Irish Republic.  
Research Associate, on-line database implementation, 1970. Project IMPRESS (John Kemeny), Dartmouth.  
Staff Anthropologist, Instructor. 1968. Summer Seminar in Quantitative Anthropology, NSF.

#### ***Administrative***

Governing Council, Complexity Science Society, 2005-2009 (formerly European CSS)  
Chair & Co-Founder. 2006-. Social Dynamics and Complexity; 2003-6. Social Dynamics and Evolution; focused research groups and PhD program w/in Mathematical Behavioral Sciences; 1994-96, Senate Committee on International Education; 1982-83, Graduate Program in Social Networks; 1980-81, Academic Senate Committee on Courses; 1980-81, Social Structure Group (Co-Founder); 1979-80, Social Networks Research Program.  
Graduate Director: 1995-2004. Social Networks Ph.D. Program, UCI.  
Executive Committees: 1994-96, 1980-81, Academic Senate, Irvine; 1976-78. School of Social Sciences.  
President, 1986-90; Chair 1986-present. Linkages: World Development Research Council.

***Recent Extramural Funding. Agence National de Recherche.*** Informatic Treatment of Kinship Phenomena in Anthropology and History, 2005-07. \$137,000 (PIs Houseman and Grange). **National Science Foundation research grants:** Predictive Social Cohesion Theory 1999-2002. \$85,000; 1988-90; Network Analysis of Kinship, Social Transmission and Exchange: Cooperative Research at UCI, UNI Cologne, CNRS Paris 1993-95.

**Numerous small grants:** Santa Fe Institute Core Funding for MacroSocial System Dynamics, 2004, \$25,000; social science database and computing systems, planning grants, conferences, NSF student trainee grants.

**Professional (selected)**

General Editor. *Structure and Dynamics*. UC eScholarship journal. *World Cultures*. eJournal. 1985-1990.  
President Elect and President 1992-1993: Social Science Computing Association.  
Charter Member: Society for Anthropological Sciences. The Classification Society-No. American Branch, Society for Cross-Cultural Research, INSNA, Society for Psychological Anthropology, Cognitive Sciences Society.  
NSF Review Panel, Anthropology; numerous editorial boards and professional memberships.

**Selected publications, starting with books**

- 2005 **Network Analysis and Ethnographic Problems: Process Models of a Turkish Nomad Clan**. drw & Ulla Johansen. Boston: Lexington Press/AltaMira. 2006 Paper <http://www.worldcatlibraries.org/oclc/122927949?tab=details>
- 2002 **Networks and Complexity** Special Issue, *Complexity* 8(1) <http://tinyurl.com/5klw18>  
<http://eclectic.ss.uci.edu/~drwhite/Complexity/SpecialIssue.htm>
- 1998 **Kinship, Networks and Exchange**, eds. Thomas Schweizer, drw. Cambridge University Press.  
[http://www.worldcatlibraries.org/oclc/36103977&referer=brief\\_results](http://www.worldcatlibraries.org/oclc/36103977&referer=brief_results)
- 1996 **Social Network And Discrete Structure Analysis**, Special Issue, *Social Networks* 18(3), eds. drw and V. Duquenne. Elsevier Press. [http://www.elsevier.com/wps/find/journalspecialissues.cws\\_home/505596/specialissues](http://www.elsevier.com/wps/find/journalspecialissues.cws_home/505596/specialissues)
- 1993 **Foundations for Social and Biological Evolution**, A. Iberall, D. Wilkinson, drw. Laguna, CA: CDC Press.
- 1989 **Research Methods in Social Network Analysis**, eds. L. C. Freeman, drw, A. K. Romney. George Mason Press. Reprinted 1991, Transaction Press. <http://www.worldcatlibraries.org/oclc/24010835?tab=holdings>
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- 2009 Under contract. Cognition and Social Networks. Blackwell **Handbook of Cognitive Anthropology**, Edited by David Kronenfeld, Giovanni Bennardo, Victor De Munch, Michael Fischer. Blackwell (UK)
- 2009 In Press. Dynamics of Human Behavior, 29pp. **Encyclopedia of Complexity and Systems Science**, Heidelberg: Springer DE. <http://www.santafe.edu/research/publications/wpabstract/200809042>
- 2009 In Press. Standard Cross-Cultural Sample. 9pp. **International Encyclopedia of the Social Sciences**, 2nd edition. New York: Macmillan Reference USA. <http://eclectic.ss.uci.edu/~drwhite/pub/SCCSencycl1.1.pdf>
- 2008 Chapter 5: Innovation in the Context of Networks, Hierarchies, and Cohesion. To appear in, David Lane, Geoff West, Sander van der Leeuw, and Denise Pumain, eds. **A New Perspective on Innovation and Social Change**. Dordrecht: Springer Methodos Series. <http://eclectic.ss.uci.edu/~drwhite/pub/ch5revMay-20.pdf>
- 2008 Oscillatory dynamics of city-size distributions in world historical systems. (drw, L. Tambayong, and N. Kejžar). Pp. 190-225. In, G. Modelski, T. Devezas and W. Thompson, eds. **Globalization as Evolutionary Process: Modeling Global Change**. London: Routledge.  
[http://eclectic.ss.uci.edu/~drwhite/pub/WhiteKejzarTambaVienna\\_Q.pdf](http://eclectic.ss.uci.edu/~drwhite/pub/WhiteKejzarTambaVienna_Q.pdf)
- 2007 Standard Cross-Cultural Sample. **International Encyclopedia of the Social Sciences**, 2nd edition.  
<http://eclectic.ss.uci.edu/~drwhite/pub/SCCSencycl1.1.pdf>
- 2007 Role Models for Complex Networks, Joerg Reichart and Douglas R. White. **European Physical Journal B** 60: 217-224. [http://eclectic.ss.uci.edu/~drwhite/pub/RW\\_6Page\\_JournalFormat.pdf](http://eclectic.ss.uci.edu/~drwhite/pub/RW_6Page_JournalFormat.pdf) Selected as a 'Highlights' paper of Europhysics News 8(1) 2008.
- 2007 Network Structures in Industrial Pricing: The Effect of Emergent Roles in Tokyo Supplier-Chain Hierarchies. Tsutomu Nakano and Douglas R. White. **Structure and Dynamics** 2(3): 904-926.  
<http://repositories.cdlib.org/imbs/socdyn/sdeas/vol2/iss3/>
- 2006 A Generative Model for Feedback Networks. drw, Nataša Kejžar, Constantino Tsallis, Doyne Farmer, and Scott White. **Physical Review E**, 016119 11pp. <http://arxiv.org/abs/cond-mat/0508028> <http://tinyurl.com/ylpbn3>
- 2005 Network Dynamics and Field Evolution: The Growth of Interorganizational Collaboration in the Life Sciences. (W. W. Powell, drw, K. W. Koput & J. Owen-Smith) **American Journal of Sociology** 110(4):901-975. Viviana Viviana Zelizer Best Paper in Economic Sociology Award (2005-2006), American Sociological Association  
<http://www.journals.uchicago.edu/AJS/journal/contents/v110n4.html>
- 2005 Multiple Measures of Alyawarra Kinship. (Woodrow W. Denham and drw) **Field Methods** 17: 70-101.  
<http://fmx.sagepub.com/content/vol17/issue1/>
- 2004 Network Analysis, Social Dynamics and Feedback in Social Systems. **Cybernetics and Systems** 35(2-3):173-192. <http://taylorandfrancis.metapress.com/openurl.asp?genre=issue&issn=1087-6553&volume=35&issue=2>
- 2004 Networks, Fields and Organizations: Micro-dynamics, scale and cohesive embeddings (drw, W. W. Powell, J. Owen-Smith, J. Moody) **Computational and Mathematical Organization Theory** 10(1):95-117.  
<http://www.springerlink.com/openurl.asp?genre=issue&issn=1572-9346&volume=10&issue=1>
- 2004 Ring Cohesion Theory in Marriage and Social Networks. **Mathématiques et sciences humaines** 168:5-28  
<http://www.ehess.fr/revue-msh/recherche.php?numero=168> <http://eclectic.ss.uci.edu/download/MarriageNetTools.htm>

- 2003 Structural Cohesion and Embeddedness: A Hierarchical Conception of Social Groups. (J. Moody, drw) *American Sociological Review* 68(1):1-25. 2004 Outstanding Article Award in Mathematical Sociology. American Sociological Association. <http://www.asanet.org/journals/ASRFeb03MoodyWhite.pdf>
- 2001 The Cohesiveness of Blocks in Social Networks: Node Connectivity and Conditional Density. (drw & Frank Harary), *Sociological Methodology* 2001 (31):305-359. <http://eclectic.ss.uci.edu/~drwhite/sm-w23.PDF>
- 1999 Controlled Simulation of Marriage Systems. *Journal of Artificial Societies and Social Simulation* 2(3). <http://jasss.soc.surrey.ac.uk/2/3/5.html>
- 1997 Class, Property and Structural Endogamy: Visualizing Networked Histories. (L. A. Brudner & drw). *Theory and Society* 25(2):161-208. <http://repositories.cdlib.org/postprints/3/>
- 1996 Kinship Networks and Discrete Structure Theory: Applications and Implications. (drw & P. Jorion). *Social Networks* 18:267-314. <http://eclectic.ss.uci.edu/~drwhite/pw/White-Jorion1992.pdf>
- 1994 Centrality Measures for Oriented Graphs. (drw & S. Borgatti) *Social Networks* 16:335- 346. <http://tinyurl.com/6n2c6q>
- 1993 Using Galois lattices to represent network data. (L. C. Freeman & drw) *Sociological Methodology* 1993 (23):127-146. [http://links.jstor.org/sici?sici=0081-1750\(1993\)23<127%3AUGLTRN>2.0.CO%3B2-9](http://links.jstor.org/sici?sici=0081-1750(1993)23<127%3AUGLTRN>2.0.CO%3B2-9)
- 1992 Structure and Dynamics of the Global Economy: Network Analysis of International Trade 1965-1980. (D. Smith & drw) *Social Forces* 70:857-894. <http://eclectic.ss.uci.edu/~drwhite/WorldTrade/Cray.pdf>
- 1991 World-System and Regional Linkages as Causally Implicated in Local Level Conflicts at the Ethnographic Horizon. *Zeitschrift fur Ethnologie* 115:111-37.
- 1988 Evidence for a Long Term Process Scale for Social Change in Modern Man Settled in Place via Agriculture and Engaged in Trade and War. (A. Iberall & drw) *GeoJournal* 17:311- 338.
- 1983 Graph and Semigroup Homomorphisms. (drw & K. P. Reitz) *Social Networks* 5:193-234. <http://eclectic.ss.uci.edu/~drwhite/pub/whitereitz.pdf>
- 1982 Multivariate Modeling with Interdependent Network Data. (M. M. Dow, drw, M .L. Burton) *Behavior Science Research* 17:216-245. <http://ccr.sagepub.com/cgi/content/abstract/17/3-4/216>
- 1977 Entailment Theory and Method: A Cross-Cultural Analysis of the Sexual Division of Labor. (drw, M. Burton, L. Brudner) *Behavior Science Research* 12:1-24. <http://eclectic.ss.uci.edu/~drwhite/pub/Entail77.pdf>
- 1974 Mathematical Anthropology, In J. J. Honigmann, ed., *Handbook of Social and Cultural Anthropology*, pp 369-446. <http://eclectic.ss.uci.edu/~drwhite/pub/MathAnth74-1.pdf>
- 1971 Natchez Class and Rank Reconsidered. (drw, G. P. Murdock, R. Scaglione) *Ethnology* 10:369- 388. <http://eclectic.ss.uci.edu/~drwhite/pub/NatchezPeople.pdf>
- 1969 Standard Cross-Cultural Sample (G. P. Murdock & drw) *Ethnology* 8:329-369. <http://eclectic.ss.uci.edu/~drwhite/pub/SCCS1969.pdf>