

VITA
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I. Education:

Ph.D. Political Science, Indiana University, 1977
M.A. Mathematics, Indiana University, 1974
B.A. Political Science and Mathematics, Indiana University 1971

II. Areas of Specialization

International Relations

International Conflict and Crisis Forecasting, Quantitative International Relations, Middle East Politics, U.S. Defense Policy.

Methodology

Time Series Analysis and Dynamic Modeling, Natural Language Processing, Computational Modeling, Mathematical Statistics.

III. Academic Experience

Professor, Political Science, University of Kansas, 1991-present
Associate Professor, Political Science, University of Kansas, 1988-1991
Associate Professor, Political Science, Northwestern University, 1982-1988
Assistant Professor, Political Science, Northwestern University, 1976-1982

Visiting Positions:

Bir Zeit University, West Bank, Spring 1996
American University in Cairo, Summer 1993
University of California at Davis, Winter-Spring, 1982
U.S. Naval Postgraduate School, Summer 1979, Summer 1982
Richardson Institute for Peace and Conflict Studies, University of Lancaster, 1979-80
Fellow, Center for International Policy Studies, Indiana University, 1975-76
Associate Instructor, Mathematics and Computer Science, Indiana University, 1970-1973

IV. Research Skills

Languages: Arabic (basic speaking, reading); French (good speaking, reading); Spanish (basic reading)

Mathematics: graduate-level mathematical statistics, nonparametric statistics, analysis of variance, econometrics, and mathematical modeling

Computer: C/C++, Perl, Java, Pascal, Fortran, assembly. Extensive programming experience, including parallel computer, Macintosh, and Unix systems.

V. External Grants and Fellowships

“Collaborative Research: The Dissent/Repression Nexus in the Middle East.” (with Christian Davenport, Deborah J. Gerner, Craig Jenkins, Katherine Myers, Jillian Schwedler, and Mary Ann Tetreault). National Science Foundation Human and Social Dynamics Initiative. 2005-2008. \$173,995.

“Data Collection on Mass Killings of Non-combatants”, Scientific Applications International Corporation/Political Instability Task Force. 2003-2007. \$256,910.

“Collaborative Research: Computational Methods for the Analysis of Political Event Data.” (with Valerie Hudson, Brigham Young University). National Science Foundation. 2005-2006. \$76,926. URL: <http://www.nkss.org/>

“Automated Coding of Event Data for Forecasting Genocide and Mass Killings”, Scientific Applications International Corporation/Political Instability Task Force. 2004-2005. \$115,893.

“Test of Automated Coding for Warning of Genocide and Politicide”, Scientific Applications International Corporation/State Failures Project. 2003. \$33,230.

“Political Monitoring of Palestine.” (with Deborah J. Gerner) Swiss Peace Foundation FAST Project. 2002-2004. \$34,000. URL: <http://www.swisspeace.org/fast/mideast.htm>

Fulbright Lecturing Grant, Bir Zeit University, West Bank. 2002-2003. (formally awarded but indefinitely delayed by U.S. State Department due to political instability in region).

“Analyzing the Dynamics of International Mediation Processes.” (with Deborah J. Gerner) National Science Foundation. 2001-2003. \$126,875.

“Research Experience for Undergraduates” supplement, \$21,216

“Cluster Analysis and Hidden Markov Modeling for the Forecasting of Political Instability.” Joint Warfare Analysis Center, U.S. Department of Defense. 2000. \$86,241

“Translation of KEDS Program to Unix/C Environment”, Scientific Applications International Corporation/State Failures Project. 1999-2000. \$61,132.

Fulbright Lecturing Grant, Bir Zeit University, West Bank. 1996. \$36,820.

“Development of Machine-Coded Event Data Techniques for the Analysis of Political Behavior.” (with Deborah J. Gerner) National Science Foundation. 1994-1996. \$70,000.

“Generating Events Data using Machine-Assisted Coding and Regional News Sources.” (with Ronald Francisco and Deborah J. Gerner) National Science Foundation (subcontract from Data Development in International Relations project). 1991-1993. \$39,000.

“Short Term Prediction of International Events using Pattern Recognition.” National Science Foundation. 1989-1991. \$56,000.

“Institutional Fellowship Grant: Borders and International Cooperation in Africa.” (with Caroline Bledsoe) John D. and Catherine T. MacArthur Foundation. 1988. \$797,000

“Conference on Artificial Intelligence and Psychological Approaches to Foreign Policy Decision Making.” (with Charles Hermann and Margaret Hermann) Midwest Consortium for International Security Studies. 1987. \$20,000

“A Computer Laboratory for Undergraduate Study in Political Science.” (with Kenneth Janda) National Science Foundation Instructional Scientific Equipment Program. 1981-1982 \$24,900

“Collaborative Research in the Study of N-Nation International Interactions.” (with Dina A. Zinnes) National Science Foundation. 1982-83. \$58,000

“Development of a Freshman-Sophomore Course in Mathematical Models in the Social Sciences.” (with Carole J. Uhlaner) Mellon Foundation. 1979. \$12,500

“The Effects of Major Power Arms Transfers on International Behavior in the Arabian Sea Area.” NATO/NSF Postdoctoral Fellowship. 1979-80. \$14,500

VI. Publications and Professional Papers

Project Web Sites

Kansas Event Data System: <http://web.ku.edu/keds>

New Kind of Social Science: <http://www.nkss.org/>

Books and Monographs

Microcomputer Methods in the Social Sciences. Beverly Hills, CA: Sage Publications, 1984, 1987.

Spanish edition: *El Microordenador en las Ciencias Sociales*. Barcelona: Editorial Crítica, 1987

Crosstabs: Student Workbook for American Government. Boston: Houghton Mifflin, 1987, 1989 (with Kenneth Janda)

International Interactions 10,1 (1983). Special issue on "Quantitative Studies of Arms Transfers." (edited, with Ronald J. Sherwin)

Preserving Arms Distributions in a Multi-Polar World. University of Denver Monograph Series in World Affairs, 18,4 (1982)

Refereed Articles

“Comment on King and Zeng, ‘When Can History be Our Guide? The Pitfalls of Counterfactual Inference’” *International Studies Quarterly* 50: 211-215 (2007)

“Forecasting Conflict in the Balkans using Hidden Markov Models.” Pp. 161-184 in Robert Trapp, ed. *Programming for Peace: Computer-Aided Methods for International Conflict Resolution and Prevention*. Dordrecht, Netherlands: Kluwer Academic Publishers, 2006

“An Event Data Analysis of Third-Party Mediation.” *Journal of Conflict Resolution* 48,3: 310-330 (June 2004) (with Deborah J. Gerner)

Reprinted in Daniel Druckman and Paul Diehl, eds. 2006. *Conflict Resolution*. Sage Publications.

“Taking Your Academic Expertise Public: Lessons Learned from Responding to the 11 September Crisis.” *International Studies Perspectives* 3,2: 221-229. (Spring, 2002) (with Deborah J. Gerner)

Reprinted in *Contemporary Essays in Peace Studies in Honor of Anthony Bing*, ed. Caroline Higgins. Richmond IN: Earlham College Press, 2004.

“Cluster-Based Early Warning Indicators for Political Change in the Contemporary Levant.” *American Political Science Review* 94,4: 803-818 (December 2000) (with Deborah J. Gerner)

“Pattern Recognition of International Crises using Hidden Markov Models.” pp. 296-328 in Diana Richards (ed.) *Political Complexity: Nonlinear Models of Politics*. Ann Arbor: University of Michigan Press, 2000.

“Into the New Millennium: Challenges Facing Palestinian Higher Education in the Twenty-First Century.” *Arab Studies Quarterly* 21,4:17-33 (1999). (with Deborah J. Gerner)

“Empirical Indicators of Crisis Phase in the Middle East, 1979-1995.” *Journal of Conflict Resolution* 41,4: 529-552 (1997) (with Deborah J. Gerner)

ICPSR Publication Related Archive Data Set #1136

“Validity Assessment of a Machine-Coded Event Data Set for the Middle East, 1982-1992.” *American Journal of Political Science* 38:825-854. (1994) (with Deborah J. Gerner)

ICPSR Publication Related Archive Data Set #1114

“The Analysis of Political Events using Machine Coded Data.” *International Studies Quarterly* 38:91-119. (1994) (with Deborah J. Gerner, Ronald Francisco and Judith L. Weddle)

“Political Science: KEDS—A Program for the Machine Coding of Event Data.” *Social Science Computer Review* 12,3: 561-588 (Fall,1994). (with Shannon G. Davis and Judith L. Weddle)

“Statistical Characteristics of Events Data.” *International Interactions* 20,1-2: 35-53 (1994)

“Prediction of International Conflict using a Neural Network.” *Social Science Computer Review* 9,4: 359-380 (1991).

- “Predicting Interstate Conflict Outcomes using a Bootstrapped ID3 Algorithm.” *Political Analysis 2*. Ann Arbor: University of Michigan Press, 1991, pp 31-56.
- “A Methodological Critique of a Test of the Effects of the Maharishi Technology of the Unified Field.” *Journal of Conflict Resolution 34,4*: 745-755 (1990)
- “Parallel Event Sequences in International Crises, 1835-1940.” *Political Behavior 12,2*:97-123 (1990)
- “Short Term Prediction of International Events using a Holland Classifier.” *Mathematical and Computer Modeling 12* : 589-600 (1989)
- “Artificial Intelligence Models of International Behavior.” *The American Sociologist 19,1*: 71-85. (1988). Reprinted in Grant Blank, James L. McCartney and Edward Brent, eds. *New Technology and the Nature of Sociological Work*. New York: Transaction Press, 1989.
- “PWORLD: A Precedent-Based Global Simulation.” *Social Science Computer Review 6,1*: 27-42 (1988)
- “A Conditional Probability Analysis of Regional Interactions in the Middle East.” *American Journal of Political Science. 32,1*: 217-230 (1988) (with Alex Mintz)
- “Arms Transfers and International Behavior in the Arabian Sea Area.” *International Interactions 10,1* (1983)
- “A Statistical Study of the Cube Law in Five Electoral Systems.” *Political Methodology 7,2*: 31-53 (1982)
- “Statistical Inference in Incremental and Difference Equation Formulations.” *American Journal of Political Science 25,4*: 815-832 (1981) (with Michael Ward).
- “Statistical Problems Associated with the Richardson Arms Race Model.” *Journal of Peace Science 3,2*: 159-172 (1978)
- “A New Test of the Cube Law.” *Political Methodology, 4,4*: 353-367 (1977) (with William Linehan)
- “Parameter Estimation by Numerical Minimization Methods.” *International Interactions 4,3*: 279-301 (1978) (with John V. Gillespie and Dina A. Zinnes)
- “Size, Competitiveness and the Probability of Influencing an Election.” *Political Methodology 10,3* (1983) (with William Linehan)
- “A Mathematical Model of the Persistence of International Conflict.” *International Interactions 8,2*: 335-348 (1981)
- “Conflict as a Determinant of Territory.” *Behavioral Science 26,1*: 37-50 (1981)
- “Richardson's N-Nation Model and the Balance of Power.” *American Journal of Political Science, 22,2*: 364-390 (1978)

“Deterrence and Arms Races: An Optimal Control Model.” *Behavioral Science*.24,3: 250-262 (1979) (with Dina A. Zinnes, John V. Gillespie, G.S. Tahim, Martin Sampson and R.M. Rubison)

“The Arab-Israeli Arms Race: An Empirical Examination.” *Jerusalem Journal of International Relations* 2,1:28-62 (1976) (with Dina A. Zinnes and John V. Gillespie)

“An Optimal Control Model of Arms Races.” *American Political Science Review*, 71,1: 226-244 (1977) (with John V. Gillespie, Dina A. Zinnes, G.S. Tahim and R.M. Rubison)

Other Articles

“Beyond the Linear Frequentist Orthodoxy.” *Political Analysis* 14,3: (Summer 2006) pp. 335-339

“Twenty Years of the Kansas Event Data System Project.” *The Political Methodologist* 14,1 (Spring, 2006) pp. 2-8.

“Detecting United States Mediation Styles in the Middle East, 1979-1998.” Pp. 99-124, in Zeev Maoz, Alex Mintz, T. Clifton Morgan, Glenn Palmer and Richard J. Stoll, eds. 2004. *Multiple Paths to Knowledge in International Relations*. Lexington, MA: Lexington Books.

Articles on “Computer Simulation”, “Deterministic Model”, and “Random Numbers” in Michael Lewis-Beck, Alan Bryman, and Tim Futing Liao. 2004. *Encyclopedia of Social Science Research Methods*. Thousand Oaks, CA: Sage Publications.

“Barbarians at the Gate: A Political Methodologist’s Notes on using the National Center for Supercomputer Applications.” *The Political Methodologist* 10,1 (Fall, 2001) pp. 28-32.

“Early Warning of Conflict in Southern Lebanon using Hidden Markov Models.” Pp. 131-162 in Harvey Starr, ed. *The Understanding and Management of Global Violence: New Approaches to Theory and Research on Protracted Conflict*. New York: St. Martin’s Press, 1999.

“Politics in the Middle East.” 2000. in Deborah J. Gerner, ed. *Understanding the Contemporary Middle East*. Boulder,CO: Lynne Rienner Publications. (with Deborah J. Gerner)

“The Effects of Media Coverage on Crisis Assessment and Early Warning in the Middle East.” in Schmeidl, Susanne and Howard Adelman, eds. 1998. *Early Warning and Early Response*. New York: Columbia University Press-Columbia International Affairs Online. (with Deborah J. Gerner)

“Cluster Analysis as an Early Warning Technique for the Middle East.” pp. 95-107 in John L. Davies and Ted Robert Gurr. 1998. *Preventive Measures: Building Risk Assessment and Crisis Early Warning Systems*. Boulder, CO: Rowman and Littlefield. (with Deborah J. Gerner).

“Environmental Change and Conflict: Analyzing the Ethiopian Famine of 1984-85.” pp. 147-158 in Carl W. Roberts, ed. *Text Analysis for the Social Sciences: Methods for Drawing Statistical Inferences from Texts and Transcripts*. Hillsdale, NJ: Lawrence Erlbaum Associates: 1997. (with Scott Savaiano)

- “Event Data in Foreign Policy Analysis.” in Laura Neack, Jeanne A.K. Hey and Patrick J. Haney. *Foreign Policy Analysis: Continuity and Change*. New York: Prentice-Hall, 1994: 145-166.
- “The Machine Coding of Events Data.” in Richard L. Merritt, Robert G. Muncaster and Dina A. Zinnes, eds. *International Events-Data Developments: DDIR Phase II*. Ann Arbor: University of Michigan Press, 1993.
- “Event Data Research in International Relations.” in Vladimir O. Rukavishnikov, ed. *Political Analysis Method, Theory and Practice*. Moscow: Institute of Sociopolitical Research, Academy of Sciences of the Russian Federation, 1993.
- “Meso-Level Regimes and Robust Plans.” in Marian Rice, Joel Snow and Harold Jacobson (eds). *Global Climate Change: Social and Economic Research Issues*. Argonne, IL: Argonne National Laboratory, 1992, pp. 86-93.
- “History and Culture in the Teaching of World Politics.” in Lev S. Gonick and Edward Weisband. *Teaching World Politics: Contending Pedagogies for a New World Order*. Boulder, CO: Westview Press, 1992. pp. 63-82 (with Deborah J. Gerner)
- “Political Science Analytical Theory and Methodology: An Assessment.” in William Crotty (ed.) *Political Science: An Assessment*. Evanston, IL: Northwestern University Press. (1991) pp 99-164 (with Paul E. Johnson)
- “Pattern Recognition in International Event Sequences: A Machine Learning Approach.” in Valerie M. Hudson, ed. *Artificial Intelligence and International Politics*. Boulder: Westview Press, 1991. pp 169-193.
- “The Development of Artificial Intelligence of International Politics.” in Valerie M. Hudson, ed. *Artificial Intelligence and International Politics*. Boulder: Westview Press, 1991. pp 9-31.
- “Mathematical Modeling.” Chapter in Jarol B. Mannheim and Richard C. Rich. *Empirical Political Analysis*. (2nd edition). Englewood Cliffs: Prentice-Hall, 1986.
Third edition: 1990
Fourth edition: 1994
Fifth edition: 2001
- “Borders and Alliance Effects in the Diffusion of Major Power Conflict, 1816-1965.” in Charles Gochman and Alan Ned Saborsky, eds. *Prisoners of War?: Nation-States in the Modern Era*. New York: D.C. Heath, 1990. (with Benjamin Most, Harvey Starr and Randolph Siverson)
- “Distributional Patterns of Regional Interactions in the Middle East and Europe.” in Claudio Cioffi-Revilla, Richard L. Merritt and Dina Zinnes, eds. *Interaction and Communication in the Global Arena*. Beverly Hills: Sage, 1987. (with Alex Mintz)
- “Event Bases, Pattern Recognition and Foreign Policy Decision-Making.” in Stephen Cimbala, ed. *Artificial Intelligence and National Security*. Lexington, MA: Lexington Books, 1987.
- “Predicting International Events.” *Byte* 11,11 (November, 1986)

- “Precedent-Based Logic and Rational Choice: A Comparison.” in Michael Ward and Urs Luterbacher, eds. *Dynamic Models of International Conflict*. Boulder, CO: Lynn Rienner Publishing, 1985. pp. 373-400.
- “Stochastic Models in International Relations Research.” in Michael Ward, ed. *Theories, Models and Simulation in International Relations*. Boulder, CO: Westview, 1985. pp. 199-221.
- “The Simulation of Weighted Voting: The Banzhaf Index.” *Byte* 9:4: 138-147 (1984)
- “The Lagged Logistic Equation as a Model of Sporadic Conflict.”, in Dina A. Zinnes, ed. *Conflict Processes and the Breakdown of International Systems*. Merriam Seminar Series on Research Frontiers, University of Denver Monograph Series in World Affairs 20,2 (1983)
- “The Use of Microcomputers in Statistical Analysis.” *News for Teachers of Political Science*, Summer, 1983.
- “Microcomputers in the Study of Politics: The Richardson Model.” *Byte* July,1982: 108-134.
- “Sensitivity Analysis of an Armaments Race.” in Patrick J. McGowan and Charles W. Kegley, eds. *Threats, Weapons and Foreign Policy*, Beverly Hills, CA: Sage Publications, pp. 275-310 (with John V. Gillespie, Dina A. Zinnes and G.S. Tahim)
- “Arms and Aid: A Differential Game Analysis.” in W. Ladd Hollist, ed. *Exploring Competitive Arms Processes*. New York: Marcel Dekker, 1978. pp. 17-38 (with John V. Gillespie, Dina A. Zinnes, G.S. Tahim and R.M. Rubison)
- “Appendix: Mathematical Methods in International Relations Models.” in Dina A. Zinnes, *Contemporary Research in International Relations*. New York: Free Press, 1976.
- “Mathematical Models of Arms Races.” in Daniel P. Maki and Maynard Thompson, eds. *Mathematical Models in the Undergraduate Curriculum*. Bloomington, IN: Indiana University Publications, 1976. pp. 166-190.
- “Richardson's Model as a Markov Process.” in John V. Gillespie and Dina A. Zinnes, eds. *Mathematical Models in International Relations*. New York: Praeger, 1976. pp. 156-175.

Computer Programs

- TABARI. Textual Analysis by Augmented Replacement Instructions. C++, open-source software for event data coding. 2000-2003.
- KEDS. Kansas Events Data System: automated event data coding. Data Development in International Relations project. 1991-1994
 "Best Research Software Award", American Political Science Association Computers and Multimedia Section, 1995.
 Project Web Site: <http://www.ukans.edu/~keds>
- SWAMI. Automated system for generating market profiles from survey data. Ameriscope Information Systems. 1991.

CROSSTABS/Make_XTABS_Data. Screen-oriented cross-tabulation system. Houghton-Mifflin. 1987.

Second edition: 1989.

Winner of "Distinguished Software" award in EDUCOM/NCRIPTAL Higher Education Software Competition, 1987.

"Outstanding Political Science Computer Software Award", American Political Science Association Computer Users Section, 1990.

ISAAC. Interactive correspondence analysis program. Young and Rubicam, Chicago. 1988.

HCLASS. Holland classifier machine learning system. *Byte*. 1986.

ESL. Event Simulation Language: compiler/interpreter for event-driven simulations (with Kenneth Appleby and Misook Kim). Third Point Systems, Inc. 1985.

POLIDEMO. Mathematical political science programs for the Richardson arms race model, Banzhaf index and weighted voting techniques. *Byte*. 1982, 1983, 1984; National Collegiate Software Clearinghouse, 1985.

Reviews

Peter Turchin. Historical Dynamics: Why States Rise and Fall. *Contemporary Sociology* 34,2: 213 - 215 (January 2005).

D. Scott Bennett and Allan C. Stam. The Behavioral Origins of War. *Perspectives on Politics*. 2,4: 886-887 (December 2004).

Gerald Schneider, Kathrine Barberi, and Nils Petter Gleditsch. Globalization and Armed Conflict. *International Studies Review*. vol. 6: 292-294 (2004).

Donald J. Puchala (ed). Visions of International Relations. *Journal of Politics* 65:263-264 (February 2003).

Charles C. Ragin. Fuzzy-Set Social Science. *American Political Science Review* 96, 2: 452-453. (June 2002).

"Major Power Cooperation Amid Conflict." *Mershon International Studies Review*, vol 40, supplement 1 (April 1996).

Thomas R. Cusack and Richard J. Stoll. Exploring Realpolitik. *American Political Science Review* 86,4:1101-1102 (1992).

Yaacov Vertzberger. The World in Their Minds. *American Political Science Review* 85,4:1502-1503. (1991).

Joshua Goldstein and John Freeman. Three-Way Street. *Journal of Politics* 53,4:1221-1223. (1991)

Thomas Schwartz. The Logic of Collective Action. *Journal of the American Statistical Association* 1987

Steven Brams. Superpower Games. *Journal of Politics*, November, 1986.

- J. David Singer. Correlates of War I and II. *Policy Studies Journal* 10,2:408-410. (1981)
- Johan K. DeVree. Foundations of Social and Political Processes. *Western Political Quarterly* 36,3:501-502. (1983)
- Nasli Choucri and J. Robinson. Forecasting in International Relations. *American Political Science Review* 73,4:1208-1209. (1979)

Other Publications

- “Meet you at the Fair: the US Festival.” *Byte* January 1983
- “A Generic Word Processor.” *Byte* April, 1982.
- “A Report from Luckenbach, Texas.” *Mountain Gazette*. (December, 1978)
- George Rogers Clark: Frontier Revolutionary*. Bloomington, IN: Buffalo Wallow Press, 1976.
- Nebo Ridge: Wilderness for Indiana*. Indianapolis, IN: Hoosier Chapter of the Sierra Club, 1976.
(with Mark Riddle and Mary Pat Lynch)
- A Hiker's Guide to Nebo Ridge*. Bloomington, IN: Indiana Sassafras Audubon Society Inc, 1975.
(with John Theile and Mary Pat Lynch)
- “Grumman Canoes” in Stuart Brand, ed. *Last Whole Earth Catalog*. Menlo Park, CA: Portola Insitute, 1971.

Invited Papers and Presentations

- “Beyond the Linear Frequentist Orthodoxy” Roundtable on *Political Analysis* in re: Brady and Collier, *Rethinking Social Inquiry*. American Political Science Association, Washington, September 2005.
- “Quantitative Methods for the Analysis of Political Conflict.” Information Operations Symposium, Combined Arms Center, Ft. Leavenworth, April 2005
- “Analyzing International Behavior using Machine-Coded Event Data.” University of North Texas, March 2005.
- “Automated Event Data Generation and the Analysis of Contentious Politics.” Mershon Center, Ohio State University, November 2004.
- “Conflict and Security in a Unipolar Military System.” NSF Workshop on Understanding Global Tensions. Bogazici University, Istanbul, Turkey, June 2004.
- “Panel: Arc of Crisis: Can Journalists Affect the Course of War?” Conference on “Covering Conflict: The Media At War”, Western Knight Center for Specialized Journalism Training, Graduate School of Journalism, University of California Berkeley, March 2004.
- “Power Laws, Self-Organized Criticality and Co-Adaptation in International Behavior.” Workshop on Power Laws in the Social Sciences, Center for Social Complexity, George Mason University, October 2003.

- “Data-Intensive Models for the Assessment of International Security.” Workshop on Security in Central Asia: Methods and Models, Massachusetts Institute of Technology, September 2003.
- “Current Challenges in Event Data Analysis.” School of Engineering and Applied Science, George Washington University, April 2003.
- “Event Data Analysis for Conflict Monitoring.” Swiss Peace Foundation, Bern, Switzerland, March 2003.
- “Forecasts and Contingencies: From Methodology to Policy.” Theme panel on “Political Utility and Fundamental Research: The Problem of Pasteur's Quadrant,” American Political Science Association meetings, Boston, August 2002.
- “Winter Institute on Event Data Analysis.” (five-day intensive workshop on TABARI and event data analysis methods). Program on Foreign Policy Analysis, Texas A&M University. January, 2002.
- “Monitoring conflict using automated coding of newswire sources: a comparison of five geographical regions.” Paper presented at the PRIO/Uppsala University/DECRG High-Level Scientific Conference on Identifying Wars: Systematic Conflict Research and Its Utility in Conflict Resolution and Prevention, Uppsala. June 2001. (with Erin M. Simpson and Deborah J. Gerner)
- “Mathematical Models of Political Behavior” and “Computer Techniques for Content Analysis”, Department of Applied Mathematics and Computer Science, Université Gaston Berger de Saint-Louis, Senegal. June 2000.
- “Classifying Event Sequences with Hidden Markov Models: Predicting Violence in the Balkans and in Southern Lebanon.” University of Minnesota, October 1999
- “Political Early Warning Models using Machine-Coded Event Data.” University of Missouri, Columbia. November 1998.
- “Early Warning of International Conflict using Hidden Markov Models.” Austrian Research Institute for Artificial Intelligence, Vienna. September 1998.
- “Forecasting Conflict in Southern Lebanon using Hidden Markov Models.” Workshop on Modeling Complexity in Social Systems, University of Colorado Center for Chaos and Complexity. July, 1998.
- “Pattern Recognition Techniques for Early Warning using Machine-Coded Event Data.” Conference on Synergy in Early Warning, Centre for Refugee Studies, University of Toronto, March 1997.
- “Into the New Millennium: Challenges Facing Palestinian Higher Education in the Twenty-First Century.” Second International Conference on Palestinian Studies, Birzeit University, West Bank, December 1996. (with Deborah Gerner)
- “Event Data Clustering as an Early Warning Indicator.” Workshop on Risk Assessment and Crisis Early Warning Systems, University of Maryland, November 1996.

- “Conflict Early Warning in the Middle East.” Conflict Early Warning Workshop, Mershon Center, Ohio State University, August 1996.
- “Machine-Coded Event Data and Statistical Early Warning Models in the Middle East.” Jaffee Center for Strategic Studies, Tel Aviv University, May 1996 (with Deborah Gerner).
- “Analyzing International Behavior in the Middle East using Machine-Coded Event Data.” Program in Foreign Policy Decision Making, Texas A&M University, December 1995.
- “Techniques for Forecasting Crises using Event Data.” Second Workshop on the Potential Contribution of Artificial Intelligence to the Avoidance of Crises and Wars. Austrian Research Institute for Artificial Intelligence, Vienna. November 1994.
- “Machine-Coding Methods for the Analysis of Reports of International Events .” Program on Nonproliferation Studies, Monterey Institute for International Studies, June 1994.
- “Machine Coding of International Event Data.” Workshop on the Potential Contribution of Artificial Intelligence to the Avoidance of Crises and War, Austrian Research Institute for Artificial Intelligence, Vienna. November 1993.
- “Event Data Research in International Relations.” Conference on Political Analysis Method, Theory and Practice. Institute of Sociopolitical Research, Academy of Sciences of the USSR, Moscow. December 1991
- “Artificial Intelligence Methods for International Relations Research" and "What Can Political Science Tell Us About International Politics in the Post-Cold War Era?" David M. Kennedy Center for International Studies, Brigham Young University. October, 1990.
- “Artificial Intelligence and the Analysis of Foreign Policy.” Center for International Relations, University of Colorado. September, 1989.
- “Language, Patterns and Computational Models of Political Behavior.” Shambaugh Conference, University of Iowa. November, 1988.
- “An Approach to Modeling Foreign Policy Decision Making using Artificial Intelligence Techniques.” Conference on Artificial Intelligence and Psychological Approaches to Foreign Policy Decision Making, Ohio State University. May, 1987.
- “Events Data, Machine Learning and Short-term Prediction in International Relations.” Data Development in International Relations Conference on Events Data, Ohio State University. May, 1987.
- “A Computational Models of Foreign Policy Decision-making.” Merriam Seminar, Department of Political Science, University of Illinois, Urbana. October, 1985.
- “Artificial Intelligence and Mathematical Modeling in the Study of International Conflict.” Joint Seminar on Dynamic Approaches to Modeling International Conflict, University of Colorado, October 1984.
- “Dependency Aspects of the International Arms Trade.” Program on Interdependent Political Economy, University of Chicago. February, 1984.

“A Framework for the Empirical Study of Arms Transfers.” Wissenschaftszentrum-Berlin, Berlin. December, 1979.

“Mathematical Models of Arms Races.” Conference on Mathematical Models in the Undergraduate Curriculum. Indiana University, May 1975.

“A Comparison of Four Optimal Control Models of Arms Races.” Workshop on Formal Models of Macropolitics, University of Chicago. October, 1974 (with Dina Zinnes, John Gillespie, and R. Michael Rubison)

Papers Presented at Professional Meetings

“Reconciling Event Data from Multiple News Sources.” Paper presented at the International Studies Association, Chicago, March 2007.

“A Conditional Probability Analysis of Pattern-Based Models Applied to Event Data in the Israeli-Palestinian Conflict.” Paper presented at the American Political Science Association, Philadelphia, September 2006. (with Valerie M. Hudson)

“The CAMEO (Conflict and Mediation Event Observations) Actor Coding Framework.” Paper presented at the American Political Science Association, Washington, September 2005. (with Deborah J. Gerner, Ömür Yilmaz and Dennis Herrrick)

“The Practice of Nonviolence in the Religious Society of Friends.” Paper presented at the Conference on Celebrating Nonviolent Resistance, Bethlehem, December 2005. (with Deborah J. Gerner)

“A New Kind of Social Science?: Moving Ahead with Reverse Wolfram Models Applied to Event Data.” Paper presented at the International Studies Association, Honolulu, March 2005. (with Valerie M. Hudson and Ray D. Whitmer)

“Using Event Data to Monitor Contemporary Conflict in the Israel-Palestine Dyad.” Paper presented at the International Studies Association, Montreal, March 2004. (with Deborah J. Gerner and Ömür Yilmaz)

“A New Kind of Social Science?: Applying Wolfram-Like Models to the Analysis of International Behavior.” Paper presented at the International Studies Association, Montreal, March 2004. (with Valerie M. Hudson and Ray D. Whitmer)

“Contemporary Methods in Content Analysis.” Graduate student workshop at the Twentieth Political Methodology Summer Conference, University of Minnesota, July 2003.

“A Statistical Assessment of ‘Ripeness’ and ‘Hurting Stalemate’ in International Mediation.” Paper presented at the International Studies Association, Portland, Oregon, February 2003. (with Deborah J. Gerner and Ömür Yilmaz)

“Evaluating the Effects of Individual and Systemic Factors in U.S. Mediation of the Arab-Israeli Conflict, 1979-2002” Paper presented at the Middle East Studies Association, Washington, D.C. ,November 2002.

- “Conflict and Mediation Event Observations (CAMEO): A New Event Data Framework for the Analysis of Foreign Policy Interactions.” Paper presented at the International Studies Association, New Orleans, March 2002 and American Political Science Association, Boston, August 2002. (with Deborah J. Gerner, Ömür Yilmaz and Rajaa Abu-Jabr)
- “Determinants of "successful" third party mediation in the Middle East.” Paper presented at the Middle East Studies Association meetings, San Francisco, November, 2001. (with Deborah Gerner)
- “A Statistical Test of Three Hypotheses on Third-Party Mediation Strategies in the Middle East and the Balkans.” Paper presented at the International Studies Association meetings, Hong Kong, July, 2001. (with Deborah Gerner)
- “Analyzing the Dynamics of International Mediation Processes” Paper presented at the Eighteenth Political Methodology Summer Conference, Emory University and the American Political Science Association meetings, San Francisco. July, August 2001.
- “Evaluating Mediation Strategies in the Middle East and the Balkans.” Paper presented at the International Studies Association meetings, Chicago, February 2001. (with Deborah Gerner)
- “TABARI: Text Analysis by Augmented Replacement Instructions.” Paper presented at the International Studies Association meetings, Chicago, February 2001.
- “Automated Coding of International Event Data Using Sparse Parsing Techniques.” Fifth International Conference on Social Science Methodology, Cologne, Germany, October 2000.
- “A Test of Hidden Markov Models as Predictors of Conflict in the Balkans, Central Asia and West Africa.” American Political Science Association, Washington, September 2000.
- “Potentials and Pitfalls in the Application of Event Data to the Study of International Mediation.” International Studies Association, Los Angeles, March, 2000.
- “Detecting United States Mediation Styles in the Middle East, 1979-1998.” International Studies Association, Washington DC, February 1999.
- “The Impact of Early Warning on Institutional Responses to Complex Humanitarian Crises.” Third Pan-European International Relations Conference and Joint Meeting with the International Studies Association, Vienna, September 1998. (with Deborah J. Gerner)
- “An Event Data Set for the Arabian/Persian Gulf Region 1979-1997.” International Studies Association, Minneapolis, March 1998. (with Deborah J. Gerner)
- “Computational Techniques for the Identification of Crisis Outcomes using Historical Analogies.” American Political Science Association, Washington, August 1997.
- “Hidden Markov Models and the Comparison of International Crises .” Fourteenth Political Methodology Summer Conference, Ohio State University. July 1997.
- “Pattern Recognition of International Crises using Hidden Markov Models.” International Studies Association, Toronto, March 1997.

- “The Kansas Event Data System: A Beginners Guide with an Application to the Study of Media Fatigue in the Palestinian *Intifada*” American Political Science Association, San Francisco, August 1996. (with Deborah J. Gerner)
- “Using Cluster Analysis to Derive Early Warning Indicators for the Middle East, 1979-1996” American Political Science Association, San Francisco, August 1996. (with Deborah J. Gerner)
- “Events Data and the Analysis of Political Behavior: The Middle East and West Africa, 1979-1995.” International Studies Association, San Diego, April 1996. (with Deborah J. Gerner and Philip A. Huxtable)
- “Empirical Indicators of Crisis Phase in the Arab-Israeli Conflict, 1980-1995.” Peace Science Society, Columbus OH, October 1995 (with Deborah J. Gerner).
- “Techniques and Troubles in the Machine Coding of International Event Data.” International Studies Association, Washington, April 1994. (with Shannon Davis).
- “Foreign Policy Interactions in the Middle East: An Initial Examination of Three Cases of Conflict.” International Studies Association, Washington, April 1994. (with Deborah J. Gerner).
- “Rules and Co-Adaptation in Foreign Policy Behavior.” International Studies Association, Acapulco. March 1993.
- “Statistical Patterns in a Dense Event Data Set for the Middle East, 1979-1992.” Midwest Political Science Association, Chicago. April 1993. (with Deborah J. Gerner)
- “Issues in the Creation of Event Data: Machine Coding of Regional and International Sources.” American Political Science Association, Chicago. August 1992. (with Deborah J. Gerner, Ronald Francisco and Judith Weddle)
- “Redefining Event Data: Language, Coding and Sources.” Ninth Political Methodology Summer Conference, Harvard University. July 1992
- “Machine Coding of International Events using International and Regional Sources.” International Studies Association, Atlanta. April 1992. (with Deborah J. Gerner, Ronald Francisco, Judith Weddle and Julia Pitner)
- “Feedforward and Adaptive Rationality in Political Behavior.” American Political Science Association, Washington. August 1991.
- “Feedback, Feedforward and Self-Organization in International Behavior.” International Studies Association, Vancouver. March 1991.
- “Prediction of Interstate Conflict Outcomes using a Neural Network.” American Political Science Association, San Francisco. August 1990.
- “Machine Coding of Event Data.” International Studies Association, Washington. April 1990. (with Christopher Donald)

- “If it ain't broke...’: A Critical Assessment of Formal Models of International Relations.” American Political Science Association, Washington. August, 1989
- “Machine Learning Approaches to Pattern Recognition in International Event Sequences.” Sixth Political Methodology Summer Conference, University of Minnesota. July 1989.
- “Political Science Analytical Theory and Methodology: An Assessment.” Midwest Political Science Association, Chicago. April, 1989. (with Paul Johnson)
- “Parallel Event Sequences in International Crises, 1835-1940.” American Political Science Association, Washington. August, 1988.
- “Statistical Characteristics of Events Data.” International Studies Association, St. Louis. April, 1988.
- “Linear Event Patterns in WEIS Data.” American Political Science Association, Chicago. September, 1987 (with D. Scott Bennett)
- “Artificial Intelligence Modeling Methods for Empirical Political Analysis.” Third NSF Conference on Political Methodology, Harvard University. August, 1986.
- “PWORLD: A Precedent-based Global Simulation.” American Political Science Association, Washington. August, 1986.
- “Set Prediction of International Events using Holland Classifier.” International Studies Association, Los Angeles. March, 1986.
- “An annotated index for the Lewis F. Richardson research papers microfilm.” Richardson Institute for Peace and Conflict Research, University of Lancaster, United Kingdom. 1985.
- “Programming an Event-Based Political Simulation.” American Political Science Association, New Orleans. August, 1985.
- “An Algorithm for the Classification of WEIS Events from WEIS Textual Data.” International Studies Association, Washington. March 1985. (with David Leibsohn).
- “Artificial Intelligence and International Crisis: The Application of Pattern Recognition to the Analysis of Event Sequences.” American Political Science Association, Washington. August, 1984.
- “A Conditional Probability Analysis of Regional Interactions in the Middle East.” International Studies Association, Atlanta. March, 1984. (with Alex Mintz)
- “The Effects of Arms Transfers on Supplier-Recipient Behavior.” International Studies Association, Mexico City. April, 1983.
- “Determinants of Association Between Domestic Attributes and Arms Transfers in Africa and Southwest Asia.” International Studies Association, Mexico City. April, 1983 (with Deborah J. Gerner)
- “The Political Economy of Arms Transfers.” European Consortium for Political Research, Aarhus, Denmark. March, 1982.

- “Contagion in Arms Transfers: A Statistical Study.” International Studies Association, Cincinnati. March, 1982.
- “A Pilot Study of the Statistical Relationships Between Arms Transfers and International Behavior in the Arabian Sea Area.” International Studies Association, Philadelphia. March, 1981.
- “Monte-Carlo Simulation in Political Science Research.” European Consortium for Political Research, Florence, Italy. March, 1980.
- “The Role of Stochastic Models in International Relations Research.” International Studies Association, Washington. March, 1978.
- “The Consequences of Maintaining Distributions of Power in an International System.” International Studies Association, St. Louis. March, 1977.
- “Research Strategies in Catastrophe Theory for Political Science.” International Studies Association, St. Louis. March, 1977.
- “Statistical Problems Associated with the Richardson Arms Race Model.” Peace Science Society, Ann Arbor. November 1976.
- “Conflict as a Determinant of Territory.” Midwest Political Science Association, Chicago. April, 1976.
- “Richardson's Model as a Markov Process.” Midwest Political Science Association, Chicago. April, 1975.
- “An Analysis of a Multistage Game Model of Arms Races.” American Political Science Association. Washington. September, 1974 (with Dina Zinnes and John Gillespie).

VII. Teaching

Courses taught:

Introduction to International Relations
 United States Foreign Policy
 United States Environmental Policy
 International Relations Theory
 United States Defense Policy
 International Conflict
 International Relations (graduate)
 International Conflict (graduate)
 International Organizations (graduate)

Introduction to Formal Models in the Social Sciences
 Formal Models in Political Science
 Mathematical Models in Political Science (graduate)

Research Methods in Political Science (graduate)
 Research Methods in International Studies (graduate)
 Multivariate Statistics for Political Research (graduate)
 Quantitative Research Methods for International Studies (graduate)

Teaching Awards:

H.O.P.E. Award Finalist, 1998 (senior class award for undergraduate teaching)
 W.T. Kemper Award for Teaching Excellence, 1999 (university-level award for graduate teaching)
 Phi Kappa Phi, 2005 (multi-disciplinary honorary society; three KU faculty recognized each year)

Inter-University Consortium for Political and Social Research Summer Program Courses

1984 "Mathematical Models in International Relations"
 1987 "Artificial Intelligence Methods for Social Science Research"
 1988 "Artificial Intelligence Methods for Social Science Research"

VIII. Professional Service

Editorial Boards:

New Millenium Books Series (Rowman and Littlefield), *International Studies Quarterly* (1996-1998, 2003-2007), *Political Analysis* (1993-1999, 2005-2007), *Social Science Computer Review* (1996-2000), *Journal of Politics* (1989-1993), *American Journal of Political Science* (1986-1990, 2006-2009)

Referee for:

American Journal of Political Science, *American Political Science Review*, *Journal of Conflict Resolution*, *Journal of Peace Research*, *International Organizations*, *International Interactions*, *Journal of Theoretical Politics*, Cambridge University Press, University of Michigan Press, St. Martin's Press, *Quantitative Applications in the Social Sciences* series, Sage Publications, National Science Foundation (proposals)

Governing Boards:

American Political Science Association Political Methodology Section (treasurer, 1994-2000, vice-president 2005-2007)
 American Political Science Association Conflict Processes Section (1985-88, 2002-2005)
 International Studies Association Workshop Grants Committee (chair, 2002-2004)
 International Studies Association Foreign Policy Analysis Section (president, 2000-2001)
 Inter-University Consortium for Political and Social Research Council (1992-95)
 Midwest Consortium for International Security Studies (Executive Committee) (1988-1992)
 Data Development in International Relations Project (1989-91)
 Inter-University Consortium for Political and Social Research Equipment Advisory Board (1988-90)

American Political Science Association Computers and Multimedia Section (1991-93)

National Science Foundation

Political Science Program Panel, 2000-2002

Information Technology Research Multi-disciplinary initiative panels, 1999-2000.

Graduate Fellowship evaluation panel, 1990-1992.

Conference Organizing:

Foreign Policy Analysis panels, International Studies Association 2000

International Studies Association annual convention, 1995 (with Deborah Gerner)

International Relations panels, Midwest Political Science Association 1980

Methodology panels, Midwest Political Science Association 1982

IX. Internal Grants:

“A Socio-Cultural Typology of Political Violence.” Humanities Research Fellowship, Hall Center for the Humanities. 2004-2005 (one semester teaching release)

“Extension of the KEDS Middle East Data Series Using New Resources from NEXIS.” (with Deborah Gerner) University of Kansas General Research Allocation Fund. 2003. \$10,000.

“The Development of Dictionaries and Support Software for the TABARI Automated Event Coding System.” (with Deborah Gerner) University of Kansas General Research Allocation Fund. 2001. \$13,000.

“The Development of Event Data for the Early Warning of Political Crises in the Persian Gulf Region.” (with Deborah Gerner). University of Kansas General Research Allocation Fund. 1997. \$9,143.

“The Development of Early Warning Indicators for the Assessment of Multilateral Intervention.” (with Deborah Gerner). University of Kansas General Research Allocation Fund. 1995. \$7,000.

“Acquisition of CD-ROM World News Reports for Machine Coding.” University of Kansas General Research Allocation Fund. 1993. \$4,200.

“Development of Machine Coding Software for Event Data Coding.” University of Kansas General Research Allocation Fund. 1991. \$5,000.

“Applications of Artificial Intelligence to the Analysis of International Events.” University of Kansas General Research Allocation Fund. 1989. \$5,000.

“Grant for the Establishment of a Center for International Studies.” (with Frank Safford) Northwestern University administrative grant. 1987. \$120,000

“Research on the papers of Lewis F. Richardson.” Northwestern University Faculty Research grant, 1984, \$1,500.

X. University Service

University of Kansas Committees:

University Task Force on Research Computing (2006-2007)
 University Task Force on Restricted Research Policies (2005-2006)
 Graduate School Evaluation Task Force (chair, sub-committee on outcomes assessment) 2002.
 Center for International Political Analysis, Policy Research Institute (co-director) (2000-2007)
 Committee to Establish an Undergraduate Minor in Conflict and Peace Studies (2001-2003)
 Committee to Establish a Master of Arts in International Studies (1995-2000)
 College of Liberal Arts and Sciences Graduate Studies Committee (1998-2001)
 Regents Distinguished Professor of International Political Economy Search Committee (chair) 1992-1995
 Political Science Executive Committee (1989-90, 1992-93, 1996-97, 1999-2000, 2002-2003)
 General Research Fund Review Committee, 1990, 1992, 1994
 Fulbright/Direct Exchange Selection Committee, 1991-1993

Northwestern University Committees:

Committee to Establish an Undergraduate Major in International Studies (co-chair) (1986-88)
 Honors Program in Mathematical Methods in the Social Sciences (1978-87; Director, 1987-88)
 Director of Graduate Studies, Department of Political Science (1980-81, 1982-83, 1985-87)
 Computer Studies Program (1980-87)
 Undergraduate Curriculum Review Committee (1986-1988)
 Animal Care and Use Committee (1985-88)

XI. Miscellaneous Activities and Awards

United States Multi-Agency Political Instability Task Force (consultant, 2004-2006, member 2007-present)
 Election Observer, United States National Council of Churches, Palestinian National Council Elections, January, 1996.
 Intensive Modern Standard Arabic, British Council, Cairo, Egypt: Summer, 1993
 "The Enforcement of Arms Limitations through Economic Sanctions." Finalist, 1980 Rabinowitch Competition, *Bulletin of the Atomic Scientists*.
 United States Department of State Scholar-Diplomat Seminar, Washington, 1978.
 Topic: Political-Military Affairs
 Katherine C. Greenough Award, Indiana University Department of Political Science, 1977 (best doctoral dissertation)
 First Prize, Midwest Peace Science Society (International) Student Paper Competition, 1975

Foreign Travel:

United Kingdom (resident, 1979-80), West Bank (resident 1996), Egypt, Israel, Jordan, Lebanon, Mauritania, Morocco, Syria, Turkey, Western Europe, Russia, Mexico, Costa Rica, Senegal, Mali, Kenya, Sudan, Ethiopia, China, Japan, Thailand.

XII. References

Christopher Achen, Department of Political Science, Princeton University, Princeton, NJ 08544
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Scott Bennett, Department of Political Science, Pennsylvania State University, University Park,
PA 16802-6200 (814-865-6566)

John Freeman, Department of Political Science, University of Minnesota, Minneapolis, MN
55455 (612-624-6018)

Jeff Gill, Department of Political Science, University of California at Davis, Davis, CA 95616
(530-752-3077)

Valerie Hudson, Department of Political Science, Brigham Young University, Provo, UT 84206
(801-422-5355)

Jon Pevehouse, Department of Political Science, University of Wisconsin, Madison, WI 53706
(608-262-4838)

J. David Singer, Department of Political Science, University of Michigan, Ann Arbor, MI 48106
(313-763-6590)

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(585-273-4760)