

JOHN E. ROLPH

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EDUCATION

University of California at Berkeley, A.B., Statistics (1962)
University of California at Berkeley, Ph.D., Statistics (1966)

PROFESSIONAL EXPERIENCE

1993 - present -- Professor of Statistics, Marshall School of Business, University of Southern California
1995 - 2000 -- Chair, Information & Operations Management Dept, Marshall School of Business, USC
1995 - present -- Professor, Department of Mathematics, University of Southern California
1993 - present -- Professor, University of Southern California Law School
1994 - present -- Member, Center for the Applied Mathematics and Statistics, USC
2001 -- Visiting Scholar, RAND Europe, Leiden, The Netherlands
1976-1993 -- Senior Statistician, RAND.
1990-1991 -- Associate Corporate Research Manager, Social Policy, RAND.
1981-1988 -- Associate Head of Economics and Statistics Department, RAND.
1976-1988 -- Head of the Statistical Research and Consulting Group, RAND.
1983 -1986 -- Faculty member, RAND/UCLA Center for Health Policy Studies.
1982 -- Invited Lecturer, Siromath Pty, Ltd., Sydney, Australia.
1980 -- Lecturer, Department of Economics, UCLA.
1970-1978 -- Faculty member, The RAND Graduate School of Policy Studies.
1969-1976 -- Research Statistician, RAND.
1966-1967, 1973-1974 -- Visiting Lecturer, Department of Statistics and Computer Science, University College London, London, England.
1967-1969 -- Assistant Professor, Department of Mathematical Statistics, Columbia University, New York

HONORS/MEMBERSHIPS

Better Policy through Statistics: A Symposium in Honor of John Rolph, February 12, 2005, Costa Mesa-Newport Beach, CA
National Associate, National Academy of Sciences, Selected first year award given, 2001
Elected Member, International Statistical Institute, 1993
Elected Fellow, American Association for the Advancement of Science, 1992
Elected Fellow, Institute of Mathematical Statistics, 1989
Elected Fellow, American Statistical Association, 1988
Fellow, Royal Statistical Society
Sigma Xi, 1966
Phi Beta Kappa, 1962
Statistics Departmental Citation, University of California, Berkeley, 1962

PROFESSIONAL ORGANIZATIONS

National Research Council

Chair, Panel on Assessing the Feasibility, Accuracy, and Technical Capability of a National Ballistics Database, National Academy of Sciences, 2004 - present
Chair, Committee on National Statistics (CNSTAT), National Academy of Sciences, 1998- 2004.
Member, Committee on National Statistics, 1990-1996, Vice-Chair, 1993-1996.
Member, Oversight Committee for Workshop on Women-owned Small Businesses, 2003-2004
Member, Panel on Methods for Assessing Discrimination, CNSTAT, 2001-2004.

Member, Panel on the Operational Test Design and Evaluation of the Interim Armored Vehicle, CNSTAT, 2001-2003. (Chair, Organizing Committee)
Member, Oversight Committee of Workshop on Statistical Methods in Software Engineering for Defense Systems, National Research Council, 2001-2003
Chair, Organizing Committee, CNSTAT Workshop on Reliability in Defense Systems, 1999-2000.
Chair, Organizing Committee, CNSTAT Workshop on Children's Health Insurance, 2000-2001.
Chair, Panel on Statistical Methods in Defense Systems Testing and Evaluation, 1993-1998.
Chair and Organizer, CNSTAT Workshop on Statistics in Defense Analysis, 1992.
Member, Panel to Review Evaluation Studies of Bilingual Education, 1991-92.
Member, Committee on Law and Justice, National Academy of Sciences, 1986-1993.
Member, Panel on Decennial Census Methodology, National Academy of Sciences, 1984 - 1989.

American Statistical Association

Member, Statistics, Defense and National Security Award Selection Committee, 2006
Member, Excellence in Statistical Reporting Award Committee, 2003-2004
Member, Wilks Memorial Medal Award Committee, 2002-2008.
Chair, Publications Committee, 1997-1998; Member, 1996-2001
Member, Search Committee for Editor of *Stats*, 2001.
Chair, Chance Task Force, 1999-2000.
Chair, Search Committee for Editor of *Chance* 11/97-2/98.
Chair, Ad-Hoc Committee on Electronic Publications, 1996-1997
Chair, Blue Ribbon Panel on Census Methodology 1996
Member, Board of Directors, Elected Editorial Representative, 1994-95
Member, OSPA Advisory Committee, 1994-96
Member, Bureau of the Census Advisory Committee, 1991- 1994
Member, Committee on Law and Justice Statistics, 1980-1985
Program Chair: Workshop in Applied Statistics, Los Angeles, 1981.

Institute of Mathematical Statistics

Institute of Mathematical Statistics (IMS) Representative, American Association for the Advancement of Science, Section U (Statistics). 2005-2008.
IMS Representative, Member of the Corporation, National Institute of Statistical Science, 1993-1994.
Chair, Committee for the Selection of Administrative Officers, Institute of Mathematical Statistics, 1989-90; Member, 1987-1990.
Member, Operations Committee, Institute of Mathematical Statistics, 1985-1988.

Other

Elected Member, Board of Trustees, National Institute of Statistical Sciences, 2003-2009. Member of Executive Committee and Chair of Science Committee of the Board (2006-2009).
Member, Panel on The Review of Adequacy of Off-shoring Data, National Academy of Public Administration, 2005-2007.
Chair, American Association for the Advancement of Science, Section U (Statistics), Nominating Committee. 2005-2006; Member, 2003-2006.
Member, Technical Advisory Committee for Redesign of National Hospital Discharge Survey, National Center for Health Statistics. 2006
Member, Technical Advisory Committee, NIJ funded RAND/UCLA Study "Investigation and Prosecution of Homicide: Examining the Federal Death Penalty System", 2003-2006
Member, Advisory Committee, UCLA California Health Interview Survey, 2000-present
Co-Chair, Fiftieth Anniversary Celebration of the National Committee on Vital and Health Statistics, 2000.
Member, Steering Committee, Mayor's Census 2000 Complete Count Committee, Los Angeles, 1997-2000.
Member, Quinquennial Review Committee, Department of Statistics, Wharton School, University of Pennsylvania, 2001.
Chair of Section U (Statistics), American Association for the Advancement of Science, 1997-98
Member of the Corporation, National Institute of Statistical Sciences, 1997-98

Member, Visiting Committee, Department of Statistics, Harvard University, 1996-2001
Member, Review Panel for Measurement, Methodology, and Statistics Program, National Science Foundation, 1997-98
Outside Examiner, City of Los Angeles Civil Service Board, 1987.
Member, Data Safety and Monitoring Committee, Retinopathy of Prematurity and Vitamin E, ROP/E Study, UCLA School of Medicine, 1981-1984.
Member, Technical Advisory Panel, California State Assembly Transportation Committee, 1975.

EDITORIAL SERVICE

Co-editor, Statistics in Social Science and Public Policy, Springer-Verlag, 1995 – 2002
Advisory Editor, , CHANCE, A Magazine of the American Statistical Association, 1996-2005
Editor, CHANCE, A Magazine of the American Statistical Association, 1992-1995
Editor, Special Section: Quality Control in Welfare Programs, September 1990, Journal of the American Statistical Association.
Associate Editor, Journal of Business and Economic Statistics, 1981-1991.
Associate Editor (Theory and Methods Section, Book Reviews), Journal of the American Statistical Association, 1972-1977.
Referee or reviewer for Annals of Mathematical Statistics; Annals of Statistics; Psychometrika; Management Science; Technometrics; Operations Research; Journal of the American Statistical Association; Statistical Science. National Science Foundation; National Center for Health Services Research; SIAM Journals; Evaluation Research; Policy Sciences; Army Basic Research Committee of the National Research Council; National Institute on Aging; Journal of Risk and Insurance; Journal of Health Economics; Jurimetrics; Journal of Econometrics, University of California Water Resources Center; Law & Society Review; Urban Institute Press.; Office of Technology Assessment; Journal of the American Medical Association; Inquiry; Western Journal of Medicine.; American Economic Review; Duxbury Press; National Research Council report review process; Department of Defense Office of Health Affairs; RAND.

CONSULTING

Litigation

Acted as consultant and as expert witness on a wide range of cases. Topics include census adjustment (1992 trial), jury (petite and grand) representativeness, racial discrimination in capital sentencing, racial discrimination in voir dire, Title 7 and Title 9 discrimination, quality assurance, arbitration, school finance, sampling, regression, estimation of damages and business losses, casino winnings at blackjack, and, more generally, the logic of statistical inference. Clients include General Electric Company, Kaiser Health Plans, Colorado State University, Jury Commissioner of Santa Barbara County, Attorneys General of New Jersey, Colorado, Washington, Montana, and California, District Attorneys of Philadelphia, San Francisco, Los Angeles, and Tulare, City attorney of Los Angeles, County Counsels for San Joaquin, Los Angeles and San Bernardino counties, and numerous private law firms.

Non-Litigation

Consultant to National Center for Educational Statistics. Consultant to Special Advisory Panel on the Census Undercount (Department of Commerce). Since 1982 I have been a consultant to Los Angeles Superior Court and played a major role in designing the method that selects and assigns jurors to court locations. In 2001, I led a study on implementing a “One Day-One Trial” term of jury service in the Los Angeles Superior Court. Presently, I am leading a study of alternative methods of selecting and assigning jurors to LA court locations. Other consulting has been for the Department of Defense , Roll International Corporation, State Farm Insurance Company, Los Angeles County Department of Public Social Services, Los Angeles County Data Processing Department, the World Bank, the Graduate Management Admissions Council, UCLA Medical School, Siromath Pty, Ltd. (Australia), Tufts University Medical School, California Wine List, Occidental College, Cardio-Dynamics, Pacific Sierra Research, and RAND.

PUBLICATIONS

Peer Reviewed Journal Articles

"Attrition in the RAND Health Insurance Experiment: A Response to Nyman," J. P. Newhouse, R. H. Brook, N. Duan, E. B. Keeler, A. Leibowitz, W. G. Manning, M. S. Marquis, C. N. Morris, C. E. Phelps, **J. E. Rolph**. Journal of Health Politics, Policy and Law, Vol. 33, No. 2, April 2008

"Identifying Malpractice-prone Physicians." **J. E. Rolph**, J. L. Adams, K. A. McGuigan, Journal of Empirical Legal Studies, March. 2007

"Arbitration Agreements in Health Care: Myths and Reality." E. Rolph, E. Moller, **J. Rolph**. Law and Contemporary Problems, winter, 1997, No 1, 60:153-184

"Assessing Defensive Medicine from Malpractice Claims," R. Kravitz, L. Petersen, **J. Rolph**. Medical Care Research and Review. 1997

"Differences in Clinical Decision Making between Internists and Cardiologists." P. Glassman, R. Kravitz, L. Petersen, **J. Rolph**. Archives of Internal Medicine, 1997, 157:506-512.

"Physicians' Personal Malpractice Experiences are not Related to Defensive Clinical Practices." P. Glassman, R. Kravitz, **J. Rolph**, L. Petersen. Journal of Health, Politics, and Law, 1996;21(2).

"Can We Reach Consensus on Census Adjustment," T. Belin and **J. Rolph**. Statistical Science, November 1994.

"Empirical Bayes Methods for Estimating Hospital Specific Mortality Rates," N. Thomas, N. Longford and **J. Rolph**. Statistics in Medicine, 1994.

The Census Adjustment Trial: Reflections of a Witness for the Plaintiffs, **J. Rolph**, Jurimetrics, 34, (fall, 1993), pp. 85-98.

Amending the National Data Bank Reporting Requirements: Are Small Claims Predictive of Large Claims?, **J. Rolph**, D. Pekelney, K. McGuigan, Inquiry, 30,(winter, 1993), pp. 441-446.

"Merit Rating for Physicians' Malpractice Premiums: Only A Modest Deterrent," **J. Rolph**, Law and Contemporary Problems, 65-86:54,5, 1991.

"Malpractice Claims Data As A Quality Improvement Tool: I. Epidemiology of Error in 4 Specialties," R. Kravitz, **J. Rolph**, K. McGuigan, JAMA, October 16, 1991, pp. 2087-2092.

"Malpractice Claims Data as A Quality Improvement Tool: II. Is Targeting Effective?," **J. Rolph**, R. Kravitz, K. McGuigan, JAMA, October 16, 1991, pp. 2093-2097.

"Relationship of Offender and Victim Race to Death Penalty Sentence in California, S. Klein, **J. Rolph**, Jurimetrics, 1991.

"Simulating Health Expenditures under Alternative Insurance Plans," J. Buchanan, E. Keeler, **J. Rolph**, M. Holmer. Management Science, 1991.

"The Demand for Episodes of Treatment in the Health Insurance Experiment," Journal of Health Economics, March 1989, E. B. Keeler and **J. E. Rolph**.

"Empirical Bayes Estimation of the Mean in a Multivariate Normal Distribution," Communications in Statistics, 1986, S. J. Press, **J. Rolph**.

"Comment on Estimating the Population in the Census 1980 and Beyond," by Eugene P. Ericksen and Joseph B. Kadane," Journal of the American Statistical Association, March 1985, **J. Rolph**.

"Limiting Liability for Automobile Accidents: Are No-Fault Tort Thresholds Effective?" Law and Policy, 493-507, 1986, J. Hammitt, **J. Rolph**.

"Automobile Accident Compensation: Who Pays How Much How Soon?" Journal of Risk and Insurance, 667-685, December 1985, **J. Rolph**, J. Hammitt, R. Houchens.

"How Cost Sharing Reduced Medical Spending of the Participants in the Health Insurance Experiment," Journal of the American Medical Association, April 22/29 1983, E. Keeler, **J. Rolph**.

"Some Statistical Evidence on Merit Rating in Medical Malpractice Insurance," Journal of Risk and Insurance, June 1981, **J. Rolph**.

"Selective Incapacitation Strategies Based on Estimated Crime Rates," Operations Research, December 1980. J. Chaiken, **J. Rolph**.

"An Estimate of the Impact of Deductibles on the Demand for Medical Care Services," Journal of the American Statistical Association, September 1980. J. Newhouse, **J. Rolph**, B. Mori, M. Murphy.

"Medical School Admission and Applicants Residence: Empirical Bayes Estimates of Logit Coefficients" Journal of Educational Statistics, December 1979, **J. Rolph**, A. Williams, C. Lee.

The New Mexico Experimental Medical Care Review Organization--A Four Year Case Study," Medical Care (Supplement), October 1978. R. Brook, K. Williams, **J. Rolph**.

"Use, Costs, and Quality of Medical Services. Impact of the New Mexico Peer Review System" (a 1971-1975 Study), Annals of Internal Medicine, August 1978, R. Brook, K. Williams, **J. Rolph**.

"The Choice Between Family and Individual Deductible Policies in Health Insurance," Journal of Economic Theory, 1977, E. Keeler, D. Relles, **J. Rolph**.

"An Empirical Study of the Differences Between Family and Individual Deductibles in Health Insurance," Inquiry, September 1977. Reprinted in Lewis E. Weeks, Howard J. Berman, and Gerald E. Bisbee, Jr. (eds.) anthology, Financing of Health Care, Health Administration Press, University of Michigan, Ann Arbor, Michigan, 1979, E. Keeler, D. Relles, **J. Rolph**.

"Choosing Shrinkage Estimators for Regression Problems," Communications in Statistics, September 1976. **J. Rolph**.

"Empirical Bayes Methods Applied to Estimating Fire Alarm Probabilities," Journal of the American Statistical Association, Vol 69, No. 348, December 1974, pp. 880-885, G. Carter, **J. Rolph**.

"Adaptive Policies for Markov Renewal Programs," Annals of Statistics, Vol. 1, No. 2, 1973, B. Fox, **J. Rolph**.

"A Stochastic Model of Discrimination in the Labor Market," Econometrica, Vol. 41, No. 1, January 1973, pp. 97-108, S. Carroll, **J. Rolph**.

"A Countable Policy Set for Sequential Decision Problems," Annals of Mathematical Statistics, Vol. 43, No. 6, 1972; **J. Rolph**, R. Strauch.

"Bayesian Estimation of Mixing Distributions," Annals of Mathematical Statistics, Vol. 39, No. 4, 1968, pp. 1289-1302, **J. Rolph**.

Books and Book Chapters

Ballistics Imaging D. Cork, **J. Rolph**, G. Meiren, C. Petrie., editors, National Academies Press, March, 2008

Discussion of "Data Analysis using Stein's Estimator and its generalizations", **J. Rolph** in Seventieth Birthday Festschrift for B. Efron, C. Morris and R. Tibshurani, editors, Springer, 2008

Off-shoring: New challenges and Opportunities In an Expanding Global Economy Janet Norwood, Carol Carson, Manuel Deese, Norman J. Johnson, Franklin S. Reeder, **John E. Rolph**, (panel members). National Academy of Public Administration. November, 2007

Technical Supplement to Off-shoring: How Big Is It?—Assessing the Employment Effects of Services Off-Shoring Using Linked Micro-Data Janet Norwood, Carol Carson, Manuel Deese, Norman J. Johnson, Franklin S. Reeder, **John E. Rolph**, (panel members). National Academy of Public Administration. February, 2007

Off-shoring: What are its Effects?, Janet Norwood, Carol Carson, Manuel Deese, Norman J. Johnson, Franklin S. Reeder, **John E. Rolph**, (panel members). National Academy of Public Administration. January, 2007.

Off-shoring: How Big Is It? Janet Norwood, Carol Carson, Manuel Deese, Norman J. Johnson, Franklin S. Reeder, **John E. Rolph**, (panel members). National Academy of Public Administration. October, 2006

Off-shoring: An Elusive Phenomenon, Janet Norwood, Carol Carson, Manuel Deese, Norman J. Johnson, Franklin S. Reeder, **John E. Rolph**, Susan Schwab (panel members). National Academy of Public Administration. January, 2006

Analyzing Information on Women-Owned Small Businesses in Federal Contracting. National Academy Press, Washington, DC 2005. (Member, Workshop Steering Committee)

Improved Operational Testing and Evaluation and Methods of Combining Test Information for the Stryker Family of Vehicles and Related Army Systems. Phase II Report, National Academy Press, Washington, DC 2004. (Member, Panel)

Improved Operational Testing and Evaluation: Better Measurement and Test Design for the Interim Brigade Combat Team with Stryker Vehicles, Phase I Report, National Academy Press, Washington, DC 2003. (Member, Panel)

Measuring Racial Discrimination, National Academy Press, Washington, DC 2004. (Member, Panel)

Innovations in Software Engineering for Defense Systems, S. R. Dalal, J. H Poore, M. Cohen (editors) National Academy Press, Washington, DC 2003. (Member, Workshop Oversight Committee)

The American Community Survey: Summary of a Workshop, National Academy Press, Washington, DC, January, 2001. (Chair of Workshop)

Public Policy and Statistics: Case Studies From Rand. S. Morton and **J. Rolph** (editors). Springer-Verlag. 2000.

"Assessing the Statistical Evidence of Racial Bias in Capital Cases," S. Morton, **J. Rolph**. Chapter in Public Policy and Statistics: Case Studies From Rand. S. Morton and J. Rolph (editors). Springer-Verlag.2000.

"Malpractice and the Impaired Physician: an Application of Matching", K. McGuigan and **J. Rolph**, Chapter in Public Policy and Statistics: Case Studies From Rand, S. Morton and J. Rolph (editors). Springer-Verlag. 2000.

"Estimating Hospital Mortality Rates." N. Thomas and **J. Rolph**. Chapter in Public Policy and Statistics: Case Studies From Rand, S. Morton and J. Rolph (editors). Springer-Verlag. 2000.

Principles and Practices for a Federal Statistical Agency: Second Edition, Committee on National Statistics, National Academy Press, Washington, DC, December, 2000. (Chair, Committee)

Statistics, Testing, and Defense Acquisition: Background Papers, M. Cohen, **J. Rolph**, D. Steffey, (editors). National Academy Press, Washington, D.C. 1999. (Chair, Panel)

Statistics, Testing, and Defense Acquisition: New Approaches and Methodological Improvements, M. Cohen, **J. Rolph**, D. Steffey, (editors). National Academy Press, Washington, D.C. 1998. (Chair, Panel)

Interim Report: Panel on Statistical Methods for Testing and Evaluating Defense Systems, 1995. (Chair, Panel)

"Why Did Casino Blackjack Winnings Drop?" **J. Rolph**. Statistics, Probability and Game Theory, IMS Lecture Notes - Monograph Series (1996), T. Ferguson and J. MacQueen (editors), Volume 30.

Statistical Issues in Defense Analysis and Testing: Summary of a Workshop, **J. Rolph** and D. Steffey (editors), National Academy Press, 1994. (Chair, Workshop)

Discussion of "Bayes Analysis of Model-Based Methods for Non-ignorable Nonresponse in the Harvard Medical Practice Survey", **J. Rolph**, in Case Studies in Bayesian Statistics, C. Gatsonis, J. Hodges, R. Kass and N. Singpurwalla, editors, Springer-Verlag, 1993.

Assessing Evaluation Studies: The Case of Bilingual Education Strategies, M. Meyer and S. Fienberg, editors. Panel on Reviewing Research in Bilingual Education, National Academy Press, 1992 (Member, Panel).

"How Much is Enough: Applying Regression to a School Finance Case," J. Pincus and **J. Rolph**, in Statistics in the Law, edited by M. DeGroot, J. Kadane and S. Fienberg, 1986, Wiley.

Planning the 1990 Census: Priorities for Research and Testing. Panel on Decennial Census Methodology, National Academy of Sciences, 1984 (Member, Panel).

The Bicentennial Census: New Directions for Methodology in 1990. C. Citro and M. Cohen, editors. Panel on Decennial Census Methodology, National Academy of Sciences, 1985. (Member, Panel)

Introduction to Data Analysis and Statistical Inference, , C. Morris and **J. Rolph**, Prentice Hall, 1981.

"Analyzing the Demand for Fire Department Services" G. Carter and **J. Rolph**, in Fire Department Deployment Analysis, edited by W. Walker, J. Chaiken, E. Ignall, Elsevier-North Holland, 1979.

Reviews

Counting on the Census? by Peter Skerry. **J. Rolph**, Journal of the American Statistical Association, March, 2001,

Statistics: Data Through Decisions (Video), 1992, **J. Rolph**, CHANCE, Vol. 7, Winter 1994..

On Combining Information: Statistical Issues and Opportunities for Research, National Academy Press, 1992. **J. Rolph**, CHANCE, Vol. 5, No. 3-4,.

"Management Science Applications to Leisure-Time Operations," S. P. Ladany, ed., **J. Rolph**, Journal of the American Statistical Association, December 1976,.

"Dynamic Probabilistic Systems," Vol. 1, "Markov Models," Vol. 2, "Semi-Markov and Decision Processes," by R. Howard, **J. Rolph**, Journal of the American Statistical Association, Vol. 67, No. 4, 1972,.

Peer Reviewed RAND Publications (that are not reprints of articles)

Burnam, P. Reuter, J. Adams, A. Palmer, K. Model, **J. Rolph**, J. Heilbrunn, G. Marshall, D. McCaffrey, S. Wenzel, and R. Kessler. Review and Evaluation of the Substance Abuse and Mental Health Services Block Grant Allotment Formula. The RAND Corporation, DRU-635-2-HHS, 1997

A Statistical Framework for Severity Adjustment of Hospital Mortality Rates, N-3501-HCFA, October, 1992, N. Thomas, N. Longford, **J. Rolph**.

Mandating Health Insurance Benefits for Employees: Effects on Health Care Use and Employers' Costs, N-2911-DOL, June 1989, M. Susan Marquis, J. L. Buchanan, E. B. Keeler, **J. E. Rolph**, M. Sze.

The Demand for Episodes of Medical Treatment in the Health Insurance Experiment, R-3454-HHS, 1988, E. B. Keeler, J. L. Buchanan, **J. E. Rolph**, D. M. Reboussin, J. M. Hanley.

Identifying High-Rate Serious Criminals from Official Records, **J. E. Rolph**, J. M. Chaiken, R-3433-NIJ, April 1987.

Automobile Accident Compensation I: Who Pays How Much How Soon? R-3050-ICJ, December 1984, **J. E. Rolph**, J. Hammitt, R. Houchens, S. Segal Polin.

Automobile Accident Compensation IV: State Rules, J. Hammitt, R. Houchens, S. Segal Polin, **J. E. Rolph**, R-3053-ICJ, December 1984.

Using Statistical Tools, N-2121-PSSP, May 1984, **J. E. Rolph**.

The Demand for Episodes of Medical Treatment: Interim Results from the Health Insurance Experiment, R-2829-HHS, E. B. Keeler, **J. E. Rolph**, with N. Duan, J. Hanley, and W. Manning, Jr., November 1982.

Methods for Estimating Individual Crime Commission Rates, R-2730-NIJ, **J. E. Rolph**, J. M. Chaiken, R. L. Houchens, April 1981.

Methods for Estimating Individual Crime Commission Rates, Executive Summary, R-2730-1-NIJ, (**J. E. Rolph**, J. M. Chaiken, R.L. Houchens), April 1981.

A Comparison of Minority and Nonminority Medical Student Performance on The National Board Exams, R-2029-HEW, **J. E. Rolph**, A. P. Williams, A. L. Lanear, November 1978.

New York City Fire Alarm Prediction Models I: Box-Reported Serious Fires, R-1214-NYC, G. M. Carter, **J. E. Rolph**, 1973.

New York City Fire Alarm Prediction Models II: Alarm Rates, R-1215-NYC, G. M. Carter, **J. E. Rolph**, 1975.

The Choice Between Family and Individual Deductible Policies Health Insurance, R-1393-OEO/HEW, E. Keeler, D. Relles, **J. Rolph**, October 1975.

Selected Other Publications

Mechanisms for Improving Joror Participation Rates in the Los Angeles Superior Court District, E. Rolph, R. MacCoun, **J. E. Rolph**, L. Demaine, Report to the Los Angeles Superior Court, December 2002

Feasibility of a One-Trial Term of Jury Service in the Los Angeles Superior Court, **J. E. Rolph**, J. L. Adams, G.T. Munsterman. Report to the Los Angeles Superior Court, November, 2001.

"Sound Numbers Make for Sound Government" C. F. Citro, **J.E. Rolph** Chattanooga Times/Chattanooga Free Press, March 18, 2001.

Mid-term Evaluation of the Education Statistical Services Institute, J Guthrie, W. Morrill, **J. Rolph**, Report to the National Center of Educational Statistics, October, 1998.

Report on Statistical Analysis of Service Data Relating to Sonii and Jones vs. General Electric Company, **J.E. Rolph**, 1998

Identifying Malpractice- Prone Physicians, **J. Rolph**, J. Adams, K. McGuigan. Final Report to AHCPR, Department of Health and Human Services, January 1997

The Effect of Malpractice Experience on Clinical Decision Making, P. Glassman, L. Peterson, M Bradley, **J. Rolph**. Report to the Office of Technology Assessment. September, 1993.

The Bad Apples? Malpractice Claims Experience of Physicians with a Surplus Lines Insurer, E. Lewis and **J. Rolph**, The RAND Corporation, October, 1992.

Report to the Special Advisory Committee on the 1990 Census, November 1990. **J. Rolph**.

Exploratory Data Analysis of Variables for Targeting Negligence-Prone Physicians Project, The RAND Corporation, November 1990, D. Pekelney, **J. E. Rolph**, K. McGuigan.

Physicians Who Change Malpractice Insurers and Their Claims Records, The RAND Corporation, September 1990, D. Pekelney, **J. E. Rolph**, K. McGuigan.

Targeting Negligence-Prone Physicians: Exploratory Data Analysis of Variables or Surgical and Ancillary Specialties, The RAND Corporation, January 1991, D. Pekelney, **J. E. Rolph**, K. McGuigan.

Malpractice and the Impaired Physician: A Progress Report, The RAND Corporation, March 1989, **J. E. Rolph**, K. A. McGuigan, E.G. Lewis.

"Casino Winnings at Blackjack," **J. Rolph**, Proceedings of the Business and Economics Statistics Section, American Statistical Association, 1990.

"Discussion of Papers by Hogan et al. and Clogg et al.," Proceedings of Second Annual Census Research Conference, 1986, **J. Rolph**.

"Restructuring the Jury Allocation Process for the Los Angeles County Jury Management Systems," Proceedings of the Urban and Regional Information Systems Association, 1984, R. Bannister, M. Moreno, **J. Rolph**.

"Statistical Notes," California Wine List Cabernets, ed. by D. Holzgang, Cheshire Booksellers Ltd., Los Angeles 1981, **J. Rolph**.

"The Effect of State of Residence on Medical School Admissions: Empirical Bayes and Least-Squares Discriminant Estimators," Proceedings of the American Statistical Association, 1978, pp. 89-98. February 1978, **J. Rolph**, A. Williams, C. Lee.

Jury Management in Los Angeles County California: Analysis of Issues and Options. Juror Services Division of Los Angeles County Superior Court, 1984. **J. Rolph**, et al.

Introduction to Data Analysis and Statistical Inference, The RAND Corporation, P-5819 (**J. E. Rolph** C. N. Morris), June 1978.

Models of Randomly Selected Prisoners, J. Chaiken, **J. E. Rolph**, S. Polich) The RAND Corporation, WN-9829-DOJ, April 1977.

Simultaneous Estimation of Possibly Similar Quantities, **J. E. Rolph**, The RAND Corporation, IN-23898, September 1977.

A Method for Estimating Characteristics of Subpopulations from Aggregated Data, **J. E. Rolph** The RAND Corporation, 1973.

Estimating Probabilities of Structural Fires in the Bronx: An Empirical; Bayes Approach, G. M. Carter and **J. E. Rolph**, The RAND Corporation, 1973, 1973.

Empirical Bayes Estimators in the Case of Unequal Variances, **J. E. Rolph**, The RAND Corporation, 1972.

Introduction to Statistical and Data Analysis with Computer Applications: I and II, C. N. Morris and **J. E. Rolph**, P-4695, P-4696, The RAND Corporation, 1971,

Predicting the Probability that an Alarm Signals a Structural Fire: I and II, G. M. Carter and **J. E. Rolph**, The RAND Corporation, 1972

Predicting the Demand for Fire Services, J. M. Chaiken and **J.E.Rolph**, The RAND Corporation, P-4625, 1971

Predicting False Alarms in the Bronx, G. M. Carter and **J. E. Rolph**.The RAND Corporation, 1971

RAND Questionnaire Analysis, C. N. Morris, **J. E. Rolph**, R. D. Specht, The RAND Corporation, 1971

RAND Questionnaire Tabulations I, G. M. Carter, J. E. Koehler, C. N. Morris, **J. E. Rolph**, A. P. Williams).
The RAND Corporation, 1972

Statistical Analysis of a Weather Simulation, P. Gluckman and **J. E. Rolph**, .The RAND Corporation, 1970

Analyzing the Effect of Weather on Fire Alarm Incidence, **J. E. Rolph**, The RAND Corporation, 1970.

The Detection of Outlying Observations, **J. E. Rolph**, The RAND Corporation, 1969.

Setting Fire Insurance Rates, **J. E. Rolph**, The RAND Corporation, 1968.

Review of -Study of California Driving Performance by Zip Code (Part I)+, **J. E. Rolph**, September 1979.

Statistical Considerations Bearing on Future Action Relative to California Driver Performance Studies, **J. E. Rolph**, January 1980.

TEACHING

Marshall School of Business, University of Southern California (1993-2007). MBA Program statistics courses (Executive MBA, Global EMBA IBEAR MBA, Professional and Managers MBA), MBA Elective course (Quantitative Consulting), Undergraduate Required Statistics courses (Large (170) and Small (45) sections).

Rand Pardee Graduate School of Policy Studies, UCLA, Rand/UCLA Health Policy Center (1970-1984) Required Graduate and Undergraduate Statistics courses.

Rand Statistics Group Short Courses (1970-1993). Regression methods, Classification and Regression Trees.

University of London, University College (1966-67, 1973-74). Graduate courses on Bayes/Empirical Bayes methods and linear models, Undergraduate courses on Probability, Stochastic Processes.

Columbia University (1967-69). Graduate courses on statistical inferences, Bayesian statistics, Undergraduate required statistics courses.

University of California, Berkeley (1965-66), Graduate course on Non-parametric statistics.

SELECTED RECENT INVITED TALKS

Following Trails of Brass and Lead- Image Databases in Forensic Firearms Identification, March 5, 2008. Pittsburgh Chapter, American Statistical Association annual dinner. Pittsburgh, PA.

Discussant of: Deconstructing Negligence: The Role of Individual and System Factors in Causing Medical Injuries, November, 2007, 2nd Annual Conference on Empirical Legal Studies, NYU Law School, NY, NY

Identifying Malpractice-prone Physicians, March 11, 2006. RAND and Journal of Empirical Legal Studies Conference on Empirical Medical Malpractice Research, Santa Monica, CA

Pressing Public Policy: from Bayes through CASM, May 14, 2005. Bayes, Multivariate Analysis and CASM Statistics Conference, University of California, Riverside.

Convincing Evidence for Making Causal Inferences, April 1, 2005. Workshop for Committee on Standards of Evidence and the Quality of Behavioral and Social Science Research, National Academy of Science, Beckman Center, Irvine, CA

SELECED GRANTS AND CONTRACTS (Principal Investigator or Co-Principal Investigator)

Co-principal Investigator. Alternative Dispute Resolution, Robert Wood Johnson Foundation, June 1996 - July 1997.

Co-principal Investigator. Diagnostic and Monitoring Omissions in a Malpractice Database. Agency for Health Care Policy and Research, July 1992 - January 1994.

Principal Investigator. Malpractice Experience and Defensive Medicine in New Jersey. Office of Technology Assessment, September 1992 - August 1993.

Principal Investigator. Targeting Negligence-Prone Physicians. Agency for Health Care Policy and Research. March 1990 - September 1992.

Principal Investigator. What Kind of Doctor Makes Which Kind of Clinical Error. Robert Wood Johnson Foundation, August 1989 - August 1990.

Principal Investigator. Impaired Physicians and Malpractice. Department of Health and Human Services. September 1989 - September 1990.

Principal Investigator. Statistical Methods for Medical Malpractice Research. Internal grant, RAND. October, 1988-October,

Co-Principal Investigator. Detection and Deterrence of Negligence. Robert Wood Johnson Foundation. January 1988 - December 1990.

Co-Principal Investigator. Some Approaches to Deterring Medical Negligence. Department of Health and Human Services. September 1986 - September 1988.

Co-Principal Investigator. Persistence of Claims-Prone Physicians. Pew Foundation. June 1986 - September 1988.

Co-Principal Investigator. Identifying High Rate Offenders from Official Records. National Institute of Justice. 1983 - 1986.

Principal Investigator. Automobile Accident Compensation. The Institute for Civil Justice (consortium of funders), RAND. 1980-1984.

Co-Principal Investigator. Statistical Methodology for Estimating Crime Commission Rates National Institute of Justice. 1978-1980.

February, 2008