



## The American Statistical Association Media Experts List

The Public Affairs Department of the American Statistical Association (ASA) maintains a database of members with expertise and experience in fields of statistical application who have volunteered to serve as sources of information for the media. The individuals on the list speak as experts in their fields, not as ASA spokespersons.

While we have provided a list of topics in an effort to help you find individuals easily, please note that these members are not subject experts, but have expertise in the statistical aspects of the topics listed. Many of the individuals on the list have experience working with media and can be relied on as resources for quotes, interviews, and background information.

Please note that the topic categories are fairly broad (and evolving), and we would recommend that you consult the expert bios in this document to determine if an individual expert meets your particular requirements.

The list continues to grow and we will issue updates as they become available. If you have need of a resource in an area not reflected here, we will be happy to try to locate someone for you. Please feel free to contact Rosanne Desmone at [rosanne@amstat.org](mailto:rosanne@amstat.org), 703.360.1861 (direct), 703.684.1221 (main), or 703.946.3820 (mobile).

The list of experts by topic begins on the next page, followed by an alphabetical list with bios and contact information.

## ASA Media Experts List by Topic

### Actuarial Science

Edward Melnick

### Affirmative Action / Discrimination

Arlene Ash  
Joseph L. Gastwirth  
David Marker

### Aging

Charles Hall  
Mack Shelley

### AIDS

Jimmy Efirid

### Air Pollutants

Douglas Nychka

### Alzheimer's Disease

Richard Kryscio

### Animal Experimentation

Armando Garsd

### Applications of Statistics in Business & Economics

William Wei

### Astrophysics

Christopher Genovese

### Basic Statistics

Patrick Spagon

### Bayesian Statistics/Methods

Brad Carlin  
David Dunson  
Andrew Gelman  
Valen Johnson  
Michael Lavine  
Thomas Louis  
Christopher Schmid  
Nozer Singpurwalla  
Hal Stern  
Peter Thall

### Bioinformatics

Terence Speed

### Biological/Ecological Applications

Bahman Shafii

### Biometrics

Bahman Shafii

### Biopharm / Clinical trials

Donald Berry  
Scott Berry  
Barry Davis  
Charles Davis  
Meleana Dunn  
Susan Ellenberg  
Scott Evans  
Armando Garsd  
Bruce Levin  
Thomas Louis  
John Robinson

Christopher Schmid

Yu Shry

Peter Thall

### Biostatistics

Donald Berry  
Brad Carlin  
Barry Davis  
Charles Davis  
Meleana Dunn  
David Dunson  
Valen Johnson  
Richard Kryscio  
Peter Lachenbruch  
Christopher Schmid  
Yu Shry  
Peter Thall  
Jessica Utts

### Biotechnology

Meleana Dunn

### Business

Tom Fullerton  
James Hess

### Cancer Treatment / Screening

Donald Berry  
Karen Kafadar  
Yu Shyr  
Peter Thall

### Census

Malay Ghosh  
Martin Wells  
Donald Ylvisaker

### Climate Change/Models

Philip Hanser  
Douglas Nychka

### Clinical Trials

see *Biopharm*

### Coincidences & Luck

Jessica Utts

### Computational Biology

Terence Speed

### Confidentiality

Jerome Reither  
Alvan Zarate

### Consumer Expenditures

Thesia Garner

### Control Theory

James Spall

### Cost Effectiveness

Robert Obenchain

### Crime

Martin Wells

**Data analysis/Mining/Monitoring**

David Banks  
Barry Davis  
Karen Kafadar  
Bruce Levin  
John Robinson  
Yu Shyr

**Decision Theory**

Jeffrey Witmer

**Demography**

David Swanson

**Disability**

Joan Turek

**Disasters**

David Swanson

**Discrimination**

See *Affirmation Action*

**Disease Clusters**

Richard Kryscio  
Lance Waller

**Disease Ecology**

Lance Waller

**Drug Abuse**

Susan Paddock

**Drug Regulation**

see *Medical Product Regulation*

**Dynamic Treatment**

Peter Thall

**Ecology**

Kent Holsinger  
Michael Lavine

**Economics, Economic Policy Analysis**

Tom Fullerton  
Thesia Garner

**Education**

Scott Evans  
Valen Johnson  
Daniel Mundfrom  
Jerome Reiter  
Jessica Utts

**Elections / Voting Behavior**

Arlene Ash  
David Banks  
Andrew Gelman  
David Marker  
Mack Shelley

**Employment / Unemployment Trends**

Tom Fullerton  
Michael Levine

**Energy**

Philip Hanser

**Environmental Issues**

Michael Lavine  
Walter Piegorsch  
C. Shane Reese  
Don Stevens  
Lance Waller

**Environmetrics**

Peter Guttorp  
Walter Piegorsch

**Epidemics**

Richard Kryscio

**Epidemiology**

Donald Berry  
David Dunson  
Jimmy Efird  
Armando Garsd  
Charles Hall  
Jessica Utts  
Lance Waller

**Evidence-Based Medicine**

John Robinson  
Steve Simon

**Experimental Design**

James Hess  
Bahman Shaffi  
Patrick Spagon

**FDA Studies**

Armando Garsd

**Federal Practices**

Alvan Zarate

**Finance**

Michael Levine  
Edward Melnick

**Forecasting**

Edward Melnick

**Forensic Sciences/Applications/Analysis**

Karen Kafadar  
David Peterson  
Bruce Weir

**Function Estimation**

Christopher Genovese  
Michael Levine

**Gambling/Wagering**

Donald Berry  
Brad Carlin  
Mark Glickman

**Genetics / Genetic Testing**

Donald Berry  
Kent Holsinger  
Terence Speed  
Bruce Weir

**Genomics**

Thomas Louis

**Geostatistics**

William Harper

**Global Warming**

see *Climate Change*

**Health/Health Care Policy/Quality**

Arlene Ash  
Jimmy Efird  
A. Blanton Godfrey  
Carl Morris  
Susan Paddock

**Health Services / Medicine**

Arlene Ash  
David Banks  
Mark Glickman  
Thomas Louis  
Carl Morris  
Susan Paddock  
Jessica Utts  
Martin Wells

**History of Statistics**

Walter Piegorsch

**Homelessness**

David Marker

**Human Papilloma Virus (HPV)**

Jimmy Efir

**Human rights**

David Banks

**Human Rights – Ethical Aspects**

John Gardenier

**Income Measurement**

Thesia Garner  
Joan Turek

**Industrial Statistics**

James Hess

**Institutional Review Boards**

Jimmy Efir

**Instrument Development**

Daniel Mundform

**Internet Traffic Data**

Karen Kafadar

**Iraqi War Deaths**

David Marker

**Juvenile crime / Juvenile Justice Law**

Howard Snyder

**Law/Litigation**

Joseph Gastwirth  
Bruce Levin  
David Peterson  
Martin Wells  
Donald Ylvisaker

**Lean Manufacturing**

James Hess

**Likelihood Analysis**

Bruce Levin

**Lotteries**

Mark Glickman  
Jessica Utts  
Donald Ylvisaker

**Managed Care**

John Robinson

**Mathematical Modeling/Estimation/Algorithms**

James Spall

**Medical Diagnostic Tests**

Steve Simon

**Medical Product Regulation**

Susan Ellenberg  
Peter Lachenbruch

**Medical Product Safety**

Susan Ellenberg  
Peter Lachenbruch  
Martin Wells

**Medicare**

Susan Paddock

**Mental Health**

Susan Paddock

**Meta Analysis**

Christopher Schmid

**Multinational Studies**

Armando Garsd

**Native American/Alaska Native Health and Disability**

Michele Connolly

**Neuroimaging**

Christopher Genovese

**Neurophysiology**

Michael Lavine

**Nonlinear Modeling**

Bahman Shaffi

**Nonparametric Inference**

David Dunson  
Christopher Genovese  
Michael Lavine  
Michael Levine

**Nonrandomized Observational Studies**

Robert Obenchain

**Oil & Gas Pipeline Risk Assessment**

William Harper

**Optimization**

James Spall

**Ordinal Data Monitoring**

Valen Johnson

**Parapsychology & Psychic Phenomena**

Jessica Utts

**Pediatric Research**

Steve Simon

**Peer Review Systems**

Valen Johnson

**Pharmaceutical Industry**

Meleana Dunn  
Robert Obenchain

**Physical/Engineering / Life Sciences**

Karen Kafadar

**Political Redistricting**

David Peterson

**Polling**

Mack Shelley

**Population**

David Swanson

**Poverty**

Thesia Garner  
Joan Turek

**Primary Treatment Trials**

Richard Kryscio

**Privacy**

Jerome Reiter  
Alvan Zarate

**Program Evaluation**

Daniel Mundfrom  
Mack Shelley

**Public Opinion**

Andrew Gelman

**Public Policy**

Joseph L. Gastwirth

**Quality Improvement/Management**

A. Blanton Godfrey  
David Marker  
Patrick Spagon

**Regression Analysis**

James Hess

**Reliability Analysis**

Valen Johnson  
C. Shane Reese  
Nozer Singpurwalla

**Reproductive Studies/Epidemiology**

David Dunson  
Bruce Levin

**Research Ethics**

John Gardenier  
Steve Simon

**Rheumatology**

Peter Lachenbruch

**Risk/ Risk Analysis/Assessment**

David Banks  
Thomas Louis  
Edward Melnick  
Walter Piegorsch  
Nozer Singpurwalla

**Robustness & Sensitivity**

Robert Obenchain

**Roles for Statisticians in Promoting Fair and Accurate Elections**

John Gardenier

**Screening Test Accuracy**

Joseph Gastwirth

**Simulation**

William Harper

**Six Sigma**

A. Blanton Godfrey  
Patrick Spagon

**Social Science Applications Of Statistical Methods**

Daniel Mundfrom  
Mack Shelley  
Martin Wells

**Space-Time Statistics**

Peter Guttorp

**Spatial Statistics**

Brad Carlin  
Peter Guttorp  
Lance Waller

**Sports**

Scott Berry  
Brad Carlin  
Scott Evans  
Mark Glickman  
Carl Morris  
Daniel Mundfrom  
C. Shane Reese  
Jerome Reiter  
Hal Stern

**Statistical Climatology**

Peter Guttorp

**Statistical Computing/Computation**

Robert Obenchain  
Christopher Schmid  
Bahman Shafii

**Statistical Disclosure**

Jerome Reiter  
Alvan Zarate

**Statistical/Statistics Education**

Walter Piegorsch  
Jessica Utts  
William Wei  
Jeffrey Witmer

**Statistical Ethics**

John Gardenier

**Stochastic Processes In Geosciences & Hematology**

Peter Guttorp

**Strategic Planning/Management**

A. Blanton Godfrey

**Terrorism**

David Banks

**Transportation (airline travel, autos, etc.)**

David Banks  
Donald Ylvisaker

**Time Series Analysis & Forecasting**

Edward Melnick  
William Wei

**Vaccines / Vaccine Safety**

Sue Ellenberg

**Voting**

See *Elections*

**Weather Prediction**

Douglas Nychka

# **ASA Experts Alphabetical Listing**

**Arlene Ash**

Research Professor  
Health Care Research Unit, General Internal Medicine, Biostatistics  
Boston University, Schools of Medicine and Public Health

**Contact Information**

617-638-7518  
[aash@bu.edu](mailto:aash@bu.edu)

**Areas of Expertise**

Affirmative Action/Discrimination • Elections/voting behavior • Health Policy • Health Services/Medicine

**Brief Biography**

Research Professor at Boston University in the Schools of Medicine and Public Health. Vice-Chair of ASA's Committee on Scientific and Public Affairs and Chair of its subcommittee on Electoral Integrity. Testified in numerous hearings and trials, on topics including: health care payment reform (US House Ways and Means Comm, government of Germany); integrity of US elections (absentee ballot irregularities in Florida's presidential election 2000), discrimination in pay (Massachusetts state and community college system). Most recently I have worked to develop guidelines for best practices in election audits and have two forthcoming papers (2008) on electoral integrity issues. Dr. Ash's work in health risk assessment received AcademyHealth's 2008 Health Services Research Impact Award.

**Education**

PhD (Statistics within Mathematics), University of Illinois at Chicago Circle, 1977  
MS (Mathematics), Washington University, St. Louis, MO, 1972.  
BA (Mathematics), Harvard University, cum laude, 1967.

**Selected publications**

Ash A, Porell F, Gruenberg L, Sawitz E, Beiser A. Adjusting Medicare capitation payments using prior hospitalization data. *Health Care Financing Review*. 1989;10(4):17-29.

Ash A, Shwartz M, Payne S, Restuccia J. The self-adapting focused review system: probability sampling of medical records to monitor utilization and quality of care. *Medical Care*. 1990;28(11):1025-1039.

Ash A. Identifying poor-quality hospitals with mortality rates: often there's more noise than signal. *Medical Care*. 1996;34(8):735-736.

Ash AS, Carr PL, Goldstein R, Friedman RH. Compensation and Advancement of Women in Academic Medicine: Is There Equity? *Annals of Internal Medicine* 2004;141: 205-212.

McCarthy J, Stanislevic H, Lindeman M, Ash AS, Addona V, Batcher, M. Percentage-based versus statistical power-based vote tabulation audits. *The American Statistician*. Accepted for publication in early 2008.

**David Banks**

Professor

Department of Statistical Science

Duke University

**Contact information**

919-684-3743

[banks@stat.duke.edu](mailto:banks@stat.duke.edu)

**Areas of Expertise**

Risk analysis, in the context of terrorism, drug safety, transportation, & dog attacks • Social network applications • General data mining

**Brief Biography**

Banks worked at four universities (Berkeley, Cambridge, Carnegie Mellon and Duke) and three federal agencies (National Institute of Standards and Technology, Department of Transportation, the Food and Drug Administration). His research areas tend to focus on computer-intensive methodology, with applications in data mining, some bioinformatics, various kinds of networks (social, computer, Internet), and the analysis of human rights data. Most recently, he has gotten involved with risk analysis, especially in the context of terrorism. Banks is currently the Coordinating Editor of the Journal of the American Statistical Association, a member-elect of the ASA Board, and he serves on two National Academies panels that advise the Department of Homeland Security, one panel that advises the Environmental Protection Agency, and a minor panel for the National Center of Educational Statistics. He is actively involved in various programs at the Statistical and Applied Mathematical Sciences Institute and the National Institute of Statistical Sciences.

**Education**

Ph.D. (Statistics) Virginia Tech, 1984

MS (Statistics) & MS (Mathematics) Virginia Tech, 1980 and 1982

BS/BA (Math and Anthropology) University of Virginia, 1977

**Selected publications**

Vogenbeck, D., Banks, D., and Forgette, R. (2008). "Social Network Methodology in the Study of Disasters: Issues and Insights Prompted by Post-Katrina Research," *Population Research and Policy Review*, 27, to appear.

Banks, D., and Hengartner, N. (2008). "Protection of Critical Infrastructure," *Encyclopedia of Quantitative Risk Assessment*, ed. by E. Melnick and B. Everitt, to appear.

Banks, D., and Said, Y. H. (2007). "New Issues in Human Rights Statistics," to appear in the Springer monograph *Statistical Methods for Human Rights*.

Banks, D., and Said, Y. H. (2006). "Data Mining in Electronic Commerce," *Statistical Science*, 21, 234-246.

Karr, A., Sanil, A., and Banks, D. (2006). "Data Quality: Issues and Strategies," *Statistical Methodology*, 3, 137--173.

## Donald Berry

Head, Division of Quantitative Sciences, & Chair, Department of Biostatistics  
& Frank T. McGraw Memorial Chair of Cancer Research  
University of Texas M. D. Anderson Cancer Center, Houston, Texas

### Contact Information

713-794-4141

[dberry@mdanderson.org](mailto:dberry@mdanderson.org)

### Areas of Expertise

Biostatistics & Clinical trials • Cancer treatment, screening and prevention • Epidemiology • Genetics • Gambling

### Brief Biography

Donald Berry serves as the faculty statistician on the Breast Cancer Committee of the Cancer and Leukemia Group B (CALGB), a national oncology group. Through Berry Consultants, LLC he has consulted with many pharmaceutical and medical device companies on clinical trial design and analysis issues. He is well known as a developer of adaptive designs that minimize sample size while having a greater chance of detecting true signals of drug activity, efficiently using information that accrues over the course of the trial. He is also co-developer (with Giovanni Parmigiani) of BRCAPRO, a widely used program that provides individuals' probabilities of carrying mutations of breast and ovarian cancer susceptibility genes BRCA1 and BRCA2. Dr. Berry previously served on the faculty at the University of Minnesota and at Duke University, where he held the Edger Thompson Professorship in the College of Arts and Sciences. He is the author of more than 250 published articles as well as several books on biostatistics. In the last two years he has had first-authored publications in the *New England Journal of Medicine*, the *Journal of the American Medical Association*, and *Nature Reviews Drug Discovery*, and two senior-authored articles in the *New England Journal of Medicine*. Dr. Berry has been the principal investigator for numerous medical research programs funded by the National Institutes of Health, the National Cancer Institute, and the National Science Foundation. He is a Fellow of the American Statistical Association and of the Institute of Mathematical Statistics. For more info about Dr. Berry, please visit <http://www.mdanderson.org/departments/biostats/display.cfm?id=41d907f0-ebda-4b0d-8ad4923d7fdd4ab2&pn=6832b127-872e-4f70-8a72649501265c63&method=displayfull>

### Education

Ph.D. (Statistics), Yale University, 1971

M.A. (Statistics), Yale University, 1967

A.B. (Mathematics), Dartmouth College, 1965

### Selected publications

Berry DA, Cronin KA, Plevritis SK, Fryback DG, Clarke L, Zelen M, Mandelblatt JS, Yakovlev AY, Habbema JDF, Feuer EJ for the Cancer Intervention and Surveillance Modeling Network (CISNET) (2005). Effect of screening and adjuvant therapy on mortality from breast cancer. *New England Journal of Medicine* **353**:1784-1792.

Berry DA (2006). Bayesian clinical trials. *Nature Reviews Drug Discovery* **5**:27-36.

Berry DA, Cirrincione C, Henderson IC, Citron ML, Budman DR, Goldstein LJ, Martino S, Perez EA, Muss HB, Norton L, Hudis C, Winer EP (2006). Estrogen-receptor status and outcomes of modern chemotherapy for patients with node-positive breast cancer. *Journal of the American Medical Association* **295**:1658-1667.

Ravdin PM, Cronin KA, Howlander N, Berg CD, Chlebowski RT, Feuer EJ, Edwards BK, Berry DA (2007). The decrease in breast-cancer incidence in 2003 in the United States. *The New England Journal of Medicine* **356**:1670-1674.

Hayes DF, Thor AD, Dressler LG, Weaver D, Edgerton S, Cowan D, Broadwater G, Goldstein LJ, Martino S, Ingle JN, Henderson IC, Norton L, Winer EP, Hudis CA, Ellis MJ, Berry DA (2007). HER2 and response to paclitaxel in node-positive breast cancer. *New England Journal of Medicine* **357**:1496-1506.

**Scott Berry**

Statistical Scientist  
President, Berry Consultants  
College Station, Texas

**Contact information**

979-690-1242

[scott@berryconsultants.com](mailto:scott@berryconsultants.com)

**Areas of Expertise**

Sports • Clinical trials

**Brief Biography**

Scott Berry is a Statistical Scientist and President of Berry Consultants. Scott is an expert in the design and analysis of clinical trials, specializing in Bayesian and Adaptive Clinical Trial design. He has established himself as an expert in statistics analysis in sports with publications in a Statistics Journals as well as ESPN the Magazine.

**Education**

PhD Statistics, Carnegie Mellon University, 1994

MS Statistics, Carnegie Mellon University, 1991

BS Mathematics, University of Minnesota, 1990

## Brad Carlin

Mayo Professor of Public Health  
Professor of Biostatistics  
School of Public Health  
University of Minnesota

### Contact Information

612-624-6646

[carli002@umn.edu](mailto:carli002@umn.edu)

[brad@biostat.umn.edu](mailto:brad@biostat.umn.edu)

### Areas/Topics of Expertise

Bayesian statistics • Spatial statistics • Sports statistics, particularly related to wagering

### Brief Biography

Brad Carlin's research interests include statistical applications in AIDS research, spatial disease mapping, longitudinal studies, and the development of hierarchical Bayes methods for such projects, especially techniques that take advantage of modern computing power. In addition to his two textbooks (Bayes and Empirical Bayes Methods for Data Analysis, coauthored with Tom Louis, and Hierarchical Modeling and Analysis for Spatial Data, coauthored with Sudipto Banerjee and Alan Gelfand) he has published more than 100 papers in refereed books and journals. In 2000, he was presented with the American Public Health Association's Mortimer Spiegelman Award, presented for outstanding contributions in health statistics by a statistician under age 40. He was also the 2001-02 Myrto Lefkopoulou Distinguished Lecturer, which recognizes statistical contributions to medicine or health and excellence in teaching, and the 2002 (inaugural) winner of the International Environmetric Society (TIES) Abdel El-Shaarawi Young Researcher's Award, given to an environmental statistician under age 40. Most recently, he has been named editor-in-chief of Bayesian Analysis, the official journal of the International Society for Bayesian Analysis (ISBA). For more information on Professor Carlin, please visit [www.biostat.umn.edu/~brad/](http://www.biostat.umn.edu/~brad/).

### Education

Ph.D. (Statistics), University of Connecticut, May 1989

Major Areas: Bayes and empirical Bayes methodology and applications

M.S. (Statistics), University of Connecticut, December 1986

Attained Associateship, Society of Actuaries, May 1985

B.S. (Mathematics and Actuarial Science), magna cum laude, University of Nebraska, May 1984

### Selected publications

Carlin BP, S Chib. Bayesian model choice via Markov chain Monte Carlo methods. *J. Roy. Statist. Soc., Ser. B* 57: 473-484; 1995.

Carlin BP, TA Louis. *Bayes and Empirical Bayes Methods for Data Analysis, 2<sup>nd</sup> ed.* Boca Raton, FL: Chapman & Hall/CRC Press; 2000.

Mugglin, AS, BP Carlin, and AE Gelfand. Fully model based approaches for spatially misaligned data. *J. Amer. Statist. Assoc.* 95:877-887; 2000.

Banerjee S, BP Carlin, AE Gelfand. *Hierarchical Modeling and Analysis for Spatial Data.* Boca Raton, FL: Chapman & Hall/CRC Press; 2004.

Niemi, J., BP Carlin, B.P, Alexander, J.M. "Contrarian strategies for NCAA tournament pools: a cure for March Madness?" to appear *Chance*, 2008.

**Michele J. Connolly**  
President, Sweetgrass Consulting  
Columbia MD

### **Contact Information**

410-997-5921  
[michelebabb@verizon.net](mailto:michelebabb@verizon.net)

### **Areas of Expertise**

American Indian/Alaska Native Health and Disability

### **Brief Biography**

Michele Connolly, recently retired from the Federal government, is President of Sweetgrass Consulting in Columbia, Maryland, which specializes in health and disability issues facing American Indians and Alaska Natives. Ms. Connolly is an enrolled member of the Blackfeet Tribe of Montana and one of a handful of American Indian statisticians. She is recognized as an expert in disability policy and measurement for American Indians and Alaska Natives and for the entire population. During her federal career, she also served as an expert in aging and in health care and financing. While at the Social Security Administration, she was elected as National Chair of the American Indian Alaska Native Advisory Committee where she was involved in efforts to address the unique cultural factors and legal status of American Indians and Alaska Natives in service and outreach. For example, she was instrumental in developing the campaign to provide extra help for American Indians and Alaska Natives eligible for Part D Medicare drug benefits. Ms. Connolly was selected as the United States expert on the health and disability of American Indians and Alaska Natives at the Small and Indigenous Population Conference, sponsored by the International Association of Official Statistics in Wellington, New Zealand. She was (under the name of Michele Adler) a member of numerous health care and welfare reform initiatives, including Hillary Clinton's Health Care Reform. Under Ms. Connolly's direction, the first and only national disability survey was designed, developed, and implemented – the National Health Interview Survey Supplement on Disability. She also led efforts to include disability items to other national surveys (e.g. the Survey of Income and Program Participation and the 1990 and 2000 decennial Censuses).

### **Education**

M.P.H. (Biostatistics), University of California, Berkeley  
B.S. (physics), University of San Francisco

### **Selected publications**

"Health and Disability among American Indians and Alaska Natives"; presentation at Small and Indigenous Population Conference, International Association of Official Statistics; 2005.

"Federal and State Disability Programs"; Entry in Encyclopedia of Retirement and Finance; Greenwood Press, 2003. (Lead author)

"Analyses of Long-Term Care, Health Insurance, and Mental Illness"; Internal Papers prepared for the White House Health Care Reform Effort; Clinton Presidential Library, 1993.

"Estimates of Disability and Long-Term Care among the U.S. Population"; ASPE Research Notes; 1995.

Databook on the Elderly: A Statistical Portrait; prepared for the Assistant Secretary of Planning and Evaluation, Department of Health and Human Services; 1987.

**Barry R. Davis, M.D., Ph.D.**

John W. Rockwell Professor in Public Health  
Professor of Biostatistics  
Director, Coordinating Center for Clinical Trials  
The University of Texas School of Public Health

**Contact Information**

713-500-9515 (Office), 713-500-9562 (Assistant)  
[barry.r.davis@uth.tmc.edu](mailto:barry.r.davis@uth.tmc.edu)

**Areas/Topics of Expertise**

Biostatistics and Clinical Trials • Data Monitoring Committees • Hypertension • Pharmacogenetics

**Biography**

Dr. Davis was the Principal Investigator and Director of the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial, the world's largest hypertension trial. Recently he served as Executive Director of Biostatistics at Amgen, the world's largest biotechnology company. From 2003 to 2006 he was Director of the Division of Biostatistics at the University of Texas School of Public Health. He has served a leading role in Coordinating Centers, Steering Committees and Data and Safety Monitoring Boards for over 50 clinical trials in heart disease, eye disease, cancer, diabetes, dental disease, neurological disease, and gastrointestinal disease. Dr. Davis' research has focused on designing, conducting and analyzing clinical trials. He has published extensively in both statistical and medical journals, on topics including data monitoring, clinical trial designs, pharmacogenetics, subgroup analyses, hypertension, and heart failure. He is a Fellow of the American Statistical Association, the Society for Clinical Trials, the American Heart Association Council on Epidemiology and Prevention, and the American College of Preventive Medicine. Dr. Davis received the University of Texas Health Science Center at Houston President's Scholar Award for Research in 2004.

**Education:**

PhD, ScM (Applied Mathematics), Brown University  
MD, University of California, San Diego School of Medicine  
BS (Life Sciences), Massachusetts Institute of Technology

**Selected Publications**

Davis BR, Baraniuk S. Definitive Phase III & IV Clinical Trials. *Handbook of Statistics 27, Epidemiology and Medical Statistics*, Rao CR, Miller JP, Rao DC (Eds) Elsevier, Amst, 2008.

Lynch AI, Boerwinkle E, Davis BR, et al. Pharmacogenetic association of NPPA T2238C genetic variant with cardiovascular disease in patients with hypertension, *JAMA*, 299 (3), 296-307, 2008.

Davis BR and Cutler JA. Data Monitoring in the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial. *Data Monitoring in Clinical Trials: A Case Studies Approach* DeMets, David L.; Furberg, Curt D.; Friedman, Lawrence (Eds.) Springer, 2005.

Davis BR, Ford CE, Boerwinkle E, et al. Imputing Gene-treatment Interactions When the Genotype Distribution Is Unknown Using Case-only and Putative Placebo Analyses--a New Method For the Genetics of Hypertension Associated Treatment (GenHAT) Study., *Statistics in Medicine*, 23(15), 2413-27, 2004.

**Charles S. Davis**  
President  
CSD Biostatistics, Inc.

**Contact Information**  
858-794-0690  
[chuck@csdbiostat.com](mailto:chuck@csdbiostat.com)

**Areas of Expertise**  
Biostatistics • Clinical Trials

### **Brief Biography**

Dr. Davis is a statistical consultant in San Diego, where he has provided biostatistical expertise in support of medical product development since December, 2005. Previously, he served as Vice President, Biometrics, at Elan Pharmaceuticals in San Diego, CA. Prior to joining Elan in the fall of 2001, he was Assistant Professor (1987-1991), Associate Professor (1991-1996), and Professor (1996-2001) of Biostatistics at the University of Iowa. While at the University of Iowa, Dr. Davis consulted for a number of pharmaceutical companies and government organizations. He is a Fellow of the American Statistical Association. He has served as the Chair of the ASA Biometrics Section (2000-2001) and as associate editor of *Controlled Clinical Trials* (1994-1998) and *The American Statistician* (2001-2005). He has authored and co-authored more than 80 peer-reviewed papers in statistical and medical journals.

### **Education**

Ph.D.(Biostatistics), The University of Michigan, Ann Arbor, MI, 1987

### **Selected publications**

Davis CS. *Statistical Methods for the Analysis of Repeated Measurements*. New York: Springer-Verlag, 2002.

Davis CS. Matched pairs with categorical data. *Encyclopedia of Biostatistics* (P. Armitage and T. Colton, editors). Chichester, UK: John Wiley and Sons, 1998, pp. 2437-2441.

Davis CS. The analysis of longitudinal studies having non-normal responses. *Statistical Analysis of Medical Data: New Developments* (B. Everitt and G. Dunn, editors). London: Edward Arnold Publishers, 1998, pp. 145-173.

Leber PD and Davis CS. Threats to the validity of clinical trials employing enrichment strategies for sample selection. *Controlled Clinical Trials* 19:178-187, 1998.

Davis CS. Statistical issues in the design and analysis of clinical trials in Alzheimer's disease. *Drug Information Journal* 30:339-350, 1996.

**Meleana E. Dunn**

Senior Manager Biostatistics  
Amgen Inc.

**Contact Information**

805-447-9272

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**Areas of Expertise**

Statistics • Clinical Trials • Pharmaceutical/Biotechnology industries

**Brief Biography**

Dunn has been working in the Pharmaceutical/Biotechnology industries for the last 11 years as a Statistician. She designs and analyze data from Clinical Trials. After recently completing her MBA, with a major in Finance, she also has studied Risk Management, which incorporates both of her areas of interest- Finance and Statistics.

**Education**

M.S. Biostatistics

MBA- Finance major

**David B. Dunson**

Senior Investigator, Biostatistics Branch  
National Institute of Environmental Health Sciences  
U.S. National Institutes of Health

**Contact Information**

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**Areas of Expertise**

Bayesian statistics • Biostatistics • Epidemiology methods • Nonparametric Bayes •  
Reproductive studies

**Brief Biography**

David Dunson received his PhD in Biostatistics in 1997 and has worked at the National Institute of Environmental Health Sciences for the past 10 years. Dr. Dunson's research focuses on the development of innovative Bayesian statistical methods motivated by data from biomedical studies, with a particular emphasis on epidemiologic and reproductive studies. He has made broad contributions to methods for analysis of correlated, multivariate and functional data, particularly in the areas of latent variable analysis, survival analysis, model selection and nonparametric statistics. Dr. Dunson has published over 100 articles, with most of these in leading statistical journals. He routinely gives invited talks at national and international conferences. Dr. Dunson is a fellow of the American Statistical Association, is the winner of the Mortimer Spiegelman award for the top public health statistician under 40, and recently won an Environmental Protection Agency gold medal for outstanding service. He is an adjunct professor in the Department of Statistical Science at Duke University and in the Department of Biostatistics at the University of North Carolina at Chapel Hill.

**Education**

B.S. (Mathematics) Penn State University, 1994  
PhD (Biostatistics) Emory University, 1997

**Selected publications**

Dunson DB, Pillai N & Park J-H. (2007). Bayesian density regression. *JRSS-B* 69, 163-183.

Dunson DB, Herring AH & Engel SM (2008). Bayesian selection and clustering of polymorphisms in functionally related genes. *JASA*, to appear.

Dunson DB & Park, J-H. (2008). Kernel stick-breaking processes. *Biometrika*, to appear.

Dunson DB Xue Y & Carin L. (2008). The matrix stick-breaking process: Flexible Bayes meta analysis. *JASA*, in press.

Dunson DB, Colombo B & Baird DD. (2002). Changes with age in the level and duration of fertility in the menstrual cycle. *Human Reproduction* 17, 1399-1403.

**Jimmy Thomas Efird**

Director, Biostatistics and Data Management Facility, JABSOM  
Director, Shared Resources, Hawaii Export Program, DNHH  
Director, APITMID Research Core  
John A. Burns School of Medicine  
Honolulu, Hawaii

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**Areas/Topics of Expertise**

AIDS • Human Papilloma Virus (HPV) • Epidemiology issues • Institutional Review Boards (IRB) • Health Policy

**Brief Biography**

Jimmy T. Efird, Ph.D., a graduate of Stanford University School of Medicine, holds advanced degrees in both epidemiology and mathematical statistics. He has more than 20 years of experience in biomedical research and pharmaceutical development and has approximately 60 peer-reviewed publications. Dr. Efird currently is Director of the Biostatistics and Data Management Facility at John A. Burns School of Medicine in Honolulu, HI and has held positions at UCSF School of Medicine, Roche Global Development, and Massachusetts General Hospital.

**Education**

Ph.D. (Epidemiology), Stanford University School of Medicine  
M.Sc.(Statistics), California State University East Bay  
B.A. (Psychology), UCLA

**Selected publications**

Efird J, Holly E, Cordier S, Mueller B, Lubin F, Filippini G, Peris-Bonet R, McCredie M, Arslan A, Bracci P, Preston-Martin S. Beauty product- related exposures and childhood brain-tumors in seven countries: results from the SEARCH international brain-tumor study. *J Neurooncol* 2005;72:133-147.

Efird J. A method for indirectly estimating gene-environment effect modification and power given only genotype frequency and odds ratio of environmental exposure. *European Journal of Epidemiology* 2005;20:389-393.

Efird J, Friedman G, Sidney S, Klatsky A, Habel L, Udaltsova N, Van Den Eeden S, Nelson L. The risk of primary adult-onset brain cancer associated with cigarette smoking and other lifestyle behaviors in a large, multi-ethnic, managed care cohort. *J Neurooncol* 68:57-69, 2004

Efird J, Holly E, Preston-Martin S, Mueller B, Lubin F, Filippini G, Peris-Bonet R, McCredie M, Cordier S, Arslan A, Bracci P. Farm-related exposures and childhood brain-tumor risk in seven countries: Results from the SEARCH International Brain Tumor Study. *Paediatr Perinat Epidemiol* 17(2):201-211, 2003.

Efird J, Friedman G, Habel L, Tekawa I, Nelson LM. Risk of subsequent cancer following invasive or in situ squamous cell skin cancer. *Annals of Epidemiology* 12:469-475, 2002.

**Susan S. Ellenberg, Ph.D.**

Professor of Biostatistics  
Center for Clinical Epidemiology and Biostatistics and  
Associate Dean for Clinical Research  
University of Pennsylvania School of Medicine

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**Areas/Topics of Expertise**

Clinical trials • Medical product safety

**Biography**

Dr. Ellenberg she serves as senior statistician for two multi-center clinical trials in the area of sleep research, and directs the Biostatistics Core of the Penn Center for AIDS Research. From 1993 to 2004 she served as Director, Office of Biostatistics and Epidemiology in the Center for Biologics Evaluation and Research (CBER) at the U.S. Food and Drug Administration; prior to that she served as the first Chief of the Biostatistics Research Branch in the Division of AIDS, National Institute of Allergy and Infectious Diseases (1988-1993), and served in the Biometric Research Branch in the Cancer Therapy Evaluation Program, National Cancer Institute (1982-1988). During Dr. Ellenberg's tenure at FDA she played a leading role in the development of international standards for design and analysis of clinical trials performed by the pharmaceutical industry, developed productive programs for postmarketing safety surveillance of biological products, and coordinated the development of policy for the establishment and operation of clinical trial data monitoring committees. Dr. Ellenberg's research has focused on practical problems in designing, conducting and analyzing data from clinical trials. She has published extensively in both statistical and medical journals, on topics including surrogate endpoints, data monitoring committees, clinical trial designs, adverse event monitoring, vaccine safety and special issues in cancer and AIDS trials. She is a Fellow of the American Statistical Association, the Society for Clinical Trials and the American Association for the Advancement of Science, and is an elected member of the International Statistical Institute. Her book, *Data Monitoring Committees in Clinical Trials: A Practical Perspective*, co-authored with Drs. Thomas Fleming and David DeMets, was named WileyEurope Statistics Book of the Year for 2002.

**Education:**

Ph.D. (Mathematical Statistics), George Washington University  
A.B. Radcliffe College

**Selected Publications**

Ellenberg, S.S. Independent data monitoring committees: rationale, operations and controversies. *Statistics in Medicine*, 20: 2573-2583, 2001.

Temple, R., Ellenberg, S.S. Placebo-controlled trials and active control trials in the evaluation of new treatments. Part 1: ethical and scientific issues. *Annals of Internal Medicine*, 133:455-463, 2000.

Ellenberg, S.S., Temple, R. Placebo-controlled trials and active control trials in the evaluation of new treatments. Part 2: Practical issues and specific cases. *Annals of Internal Medicine*, 133:464-470, 2000.

Ellenberg S.S., Braun M.M. Monitoring the safety of vaccines: assessing the risks. *Drug Safety*, 25:145-152, 2002.

Ellenberg, S.S., Foulkes, M.A., Midthun, K., Goldenthal, K.L. Evaluating the safety of new vaccines: Summary of a workshop. *American Journal of Public Health*, 95:800-807, 2005.

**Scott Evans**

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Department of Biostatistics  
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**Areas of Expertise**

Clinical Trials • Sports • Statistics Education

**Brief Biography**

Scott Evans is a senior researcher and faculty member at Harvard University. Dr. Evans is a Special Government Employee (SGE) of the FDA, serving on the Advisory Committee for CDRH and as a consultant for CDER. He serves on numerous Data Monitoring Committees including as Chair of the Adolescent Medicine Trials Network (ATN), serves on several scientific advisory boards, serves on the Human Subjects Committee (Institutional Review Board) of the Harvard School of Public Health, and has served as an expert witness for the Commonwealth of Massachusetts. Dr. Evans is the Principal Investigator (PI) of the Statistical and Data Management Center of the Neurologic AIDS Research Consortium (NARC, funded by NIH/NINDS) and the Oral HIV/AIDS Research Alliance (OHARA, funded by NIH/NIDCR). Dr. Evans is the Deputy Scientific Director of the Program for Quantitative Sciences in Medicine in the Department of Biostatistics at Harvard University. Dr. Evans was recently awarded the "Robert Zackin Distinguished Collaborative Statistician Award" for significant statistical contributions to HIV research, received a Recognition Award for contributions of statistical expertise from the Harvard School of Public Health, received a Distinguished Service Award from the Council of Chapters of the American Statistical Association, received a Meritorious Outstanding Contributor Award from the Biopharmaceutical Applied Statistics Symposium (BASS), and was inducted as a faculty member into Mu Sigma Rho, the National Honorary Society for Statistics.

**Education**

Ph.D. (Biostatistics)  
M.S. (Mathematics)

**Selected publications**

Evans SR, Li L, Wei LJ, "Data Monitoring in Clinical Trials Using Prediction", *Drug Information Journal*, 41:733-742, 2007.

Evans SR, Fichtenbaum C, Aberg J, "Comparison of Direct and Indirect Measurement of LDL in HIV Infected Individuals: ACTG 5087", *HIV Clinical Trials*, 8:1:45-52, 2007.

Evans SR, "When and How Can Endpoints Be Changed after Initiation of a Randomized Clinical Trial?" *Public Library of Science (PLoS) Clinical Trials* 2(4): e18. doi:10.1371/journal.pctr.0020018, 2007.

Evans SR, Li L, "A Comparison of Goodness of Fit Tests for the Logistic GEE Model", *Statistics in Medicine*, 24:1245-1261, 2005.

Evans SR, Testa MA, Cooley TP, Krown SE, Paredes J, Von Roenn JH, "A Phase II Evaluation of Low-Dose Oral Etoposide for the Treatment of Relapsed or Progressed AIDS-Related Kaposi's Sarcoma: An ACTG Clinical Study", *Journal of Clinical Oncology*, 20:15:3236-3241, 2002.

## Tom Fullerton

Wells Fargo Professor  
Department of Economics and Finance  
University of Texas at El Paso

## Contact Information

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## Areas of Expertise

Regional Economics • International Economics • Business Cycle Fluctuations • Employment & Unemployment Trends • Economic Policy Analysis

## Brief Biography

In addition to conducting research on borderplex business conditions, Dr. Fullerton teaches graduate and undergraduate courses in econometrics, managerial economics, urban economics, business forecasting, Latin American political economy, border economics, and international country risk analysis. A native of Ft. Worth, Fullerton attended grade school in Latin America. Prior to joining UTEP, Fullerton was Senior Economist at the University of Florida Bureau of Economic & Business Research. Before moving to Florida, Fullerton was an International Economist with Wharton Econometrics in Philadelphia. At that post, he was in charge of modeling, forecasting, and policy analysis for the South American economies of Colombia, Ecuador, and Venezuela. Fullerton has also worked as an Economist in the Executive Office of the Governor of Idaho, where he forecast the state economy and conducted fiscal policy analysis during legislative sessions. His professional career began as an Associate Economist in the corporate planning department of El Paso Electric Company. Fullerton has taught as a Visiting Professor at Helsinki School of Economics in Finland, Monterrey Institute of Technology in Mexico, Colegio de la Frontera Norte in Tijuana, and Universidad Autónoma de Ciudad Juárez. His analysis has been cited in articles appearing in *Wall Street Journal*, *New York Times*, *Barron's*, *USA Today*, *Investor's Business Daily*, and *U.S. News & World Report*. He has also appeared on national newscasts aired by ABC, CNN, and The News Hour with Jim Lehrer on PBS. Dr. Fullerton's research has been published in academic journals in North America, Europe, South America, Asia, Africa, and Australia.

## Education

Ph.D. (Economics), University of Florida, 1996  
M.A. (Business Economics) University of Pennsylvania, December 1988  
M.S. (Economics) Iowa State University, December 1984  
B.B.A. (Economics, Finance) University of Texas at El Paso, December 1981

## Selected Publications

"Maquiladora Employment Dynamics in Nuevo Laredo," 2007, **Growth & Change** 38, 23-38 (with J. Cañas and W.D. Smith).

"An Empirical Analysis of Tijuana Water Consumption," 2007, **Atlantic Economic Journal** 35, 357-369 (with R. Tinajero and J.E. Mendoza Cota).

"Borderplex Menu Evidence for the Law of One Price," 2006, **Economics Letters** 90, 28-33 (with L. Blanco-González).

"Water Transfers in El Paso County, Texas," 2006, **Water Policy** 8, 255-268.

"Regional Econometric Income Forecast Accuracy," 2005, **Journal of Forecasting** 24, 325-333 (with R. Tinajero and L. Waldman).

## **John S. Gardenier**

Retired  
National Center for Health Statistics  
Centers for Disease Control and Prevention

### **Contact Information**

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[drsgarden@verizon.net](mailto:drsgarden@verizon.net)

### **Areas of Expertise**

Statistical Ethics • Research Ethics • Roles for Statisticians in Promoting Fair and Accurate Elections • Ethical Aspects of Human Rights

### **Brief Biography**

Naval Intelligence Officer, 1960-1986 Commander, USN (Retired)  
Operations Analyst, U.S. Coast Guard, 1970-1990  
Consultant in Risk Management of Offshore Technologies, 1974  
Adj. Assoc. Prof., George Washington U; Professorial Lecturer, American U  
Survey Statistician, National Center for Health Statistics, 1990-2003  
Chair, Am. Statistical Assn Committee on Professional Ethics, 1995-1999

### **Education**

DBA, George Washington University, 1973  
BA, Yale University, 1959

### **Selected publications**

"Best Statistical Practices to Promote Research Integrity," *Professional Ethics Review*, American Association for the Advancement of Science XVI:1 Winter 2003

"Shackling the Shoulders of Giants," *Science and Engineering Ethics*, IX:3, 2003

Ethics Committee Chairman (and Lead Editor,) *Ethical Guidelines for Statistical Practice* American Statistical Association, 1999

"Risk Management – Statistical Aspects of" *Encyclopedia of Statistical Sciences*  
John Wiley & Sons, 1988

**Thesia I. Garner**  
Senior Research Economist  
Bureau of Labor Statistics

### Contact Information

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### Areas of Expertise

Clinical trials • Medical product regulation • Medical product safety • Vaccines/Vaccine Safety

### Brief Biography

Dr. Garner conducts research primarily on topics related to the economic well being of individuals, families, and households. Recent work is related to housing, wealth, poverty, inequality, and personal assessments of economic well-being. Her most recent work on experimental poverty measurement has been conducted jointly with Kathleen Short of the Census Bureau. Data from the U.S. Consumer Expenditure Survey (CE) has been used for the production of thresholds in these studies. Since the mid-1990's, when the National Academy of Sciences (NAS) Panel released its study, she has presented her research at national and international conferences. During the 2004 NAS Summer Workshop, she presented her work on options to account for owner-occupied housing in poverty measurement and continues to work on this topic. She has served as a member of the Office of Management and Budget (OMB) interagency working group with the mission to examine technical issues related to revising U.S. poverty measurement based on the recommendations of an expert National Academy of Sciences panel. Dr. Garner is a recognized expert on the U.S. Consumer Expenditure Survey (CE) and its use in economic well-being measurement. In 2003 she worked with the Director of Statistics of the International Labour Office (ILO) to prepare a document in which recommendations for income and expenditure surveys were made. In addition to her work using U.S. data, she has also conducted research on the impact of the economic transition in the Czech and Slovak Republics, using Family Expenditure and Income Survey data, while a Senior Fulbright Scholar in the early 1990's in Prague. She has served on the governing council of the International Association for Research in Income and Wealth.

### Education

Ph.D., University of Maryland, Consumer Economics and Applied Microeconomics

M.S., Purdue University, Consumer Economics and Communications

### Selected publications

Garner, Thesia I. and Randal Verbrugge. "The Puzzling Divergence of Rents and User Costs, 1980-2004: Summary and Extensions," in Diewert, Erin, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura, eds., *Price and Productivity Measurement*, Trafford Press (<http://www.trafford.com/>) forthcoming 2007.

Garner, Thesia I., Janini, George, Passero, William, Paszkiewicz, Laura, and Vendemia, Mark. "The Consumer Expenditure Survey: A Comparison with Personal Consumption Expenditures." *Monthly Labor Review*, Volume 129, Number 9, September 2006, pp. 20-46.

Garner, Thesia I. and Short, Kathleen. "Economic Well-Being Based on Income, Consumer Expenditures and Personal Assessments of Minimum Needs" in John A. Bishop and Yoram Amiel, eds., *Studies on Economic Well-being: Essays in the Honor of John P. Formby*, Vol. 12 of the Series Research on Economic Inequality, Oxford, UK: Elsevier Science, February 2004, pp. 319-361.

Garner, Thesia I., Ruiz-Castillo, Javier, and Sastre, Mercedes. "The Influence of Demographic and Household Specific Price Indices on Consumption-Based Inequality and Welfare: A Comparison of Spain and the United States." *Southern Economic Journal*, 70(1), July 2003, pp. 22-48.

Short, Kathleen and Garner, Thesia I. "Experimental Poverty Measures Under Alternate Treatments of Medical Out-of-Pocket Expenditures." *Monthly Labor Review*, August 2002, pp. 3-13.

## **Armando Garsd**

Executive Director of Biostatistics  
Hollis Eden Pharmaceuticals, San Diego, CA

### **Contact Information**

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### **Areas of Expertise**

Clinical trials • Animal experimentation • Biopharmaceutical research • FDA statistical reviews • Multinational studies

### **Brief Biography**

Dr. Garsd has served for the past seven years as the director of Biostatistics for Hollis Eden Pharmaceuticals. He has authored more than 100 scientific articles and abstracts published in leading journals and congress transactions. He was awarded the "Serving Humanity Award" by Hollis Eden in 2005. In 2007, he served as a reviewer for the *Journal of the Royal Statistical Society* in the United Kingdom. From 1984-87, he was a lecturer in biostatistics at Harvard University. From 1987-91, he was a mathematical statistician, senior biostatistician reviewer and member of the College of the Food and Drug Administration (FDA). He was on the faculty of the NIH (FAES) from 1988-90. From 1992-2001, he operated a consulting firm, Garsd & Associates - International Statistical Consulting, serving international clients that included Aventis (HMR), Bayer, Boehringer, Eli Lilly, Galderma, Mallinckrodt, Monsanto, Novartis, Pfizer, Merz, Schering-Plough and (Astra) Zeneca. Dr. Garsd was a Fulbright Fellow from 1974-78.

### **Education**

Ph.D. (Statistical ecology), University of California, Davis, 1979

M.S. (Ecology), University of California, Davis, 1975

B.S. (Biostatistics), University of Buenos Aires, 1970

### **Selected publications**

(2007) "Reduction of parasite levels in patients with uncomplicated malaria by treatment with HE2000". *The American Journal of Tropical Medicine and Hygiene*, 76(2): 232-236.

(2007) "Safety and activity of the immune modulator HE2000 on the incidence of tuberculosis and other opportunistic infections in AIDS Patients". *Antimicrobial Agents and Chemotherapy*, 51: 2639-2641.

(2007) "5-androstenediol improves survival in clinically unsupported rhesus monkeys with radiation-induced myelosuppression". *International Immunopharmacology*, 7: 500-505.

(2006) "5-androstenediol stimulates multilineage hematopoiesis in rhesus monkeys with radiation-induced myelosuppression". *International Immunopharmacology*, 6: 1706-1713.

(2006) "Improvement in immune parameters and human immunodeficiency virus-1 viral response in individuals treated with 16 $\alpha$ -bromoepiandrosterone (HE2000)", *Clinical Microbiology and Infection*. 12: 1082-1088.

## **Joseph L. Gastwirth**

Professor

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### **Areas of Expertise**

Law (product liability cases, infringement cases, and tax-assessment fairness cases) • Discrimination cases related to affirmative action • Public Policy • Accuracy of screening tests

### **Brief Biography**

Dr. Gastwirth's early career research focused on nonparametric and robust statistical methods; especially linear combinations of order statistics (L-statistics) and robust rank tests. He later became interested in the measurement of economic inequality, which led to several papers concerning the Lorenz curve and Gini index. This naturally led to developing methods for analyzing salary data for evidence of discrimination and my continuing work on problems arising in legal applications of statistics. Dr. Gastwirth has a number of Ph.D. students, several of whom are in the area of biostatistics; together, they have conducted research on topics that are intellectually related to robust methods or techniques used in economics and law. In genetic epidemiology, the underlying mode of inheritance is often not known very precisely so they adapted the efficiency robustness approach to obtain tests with high power over a class of models. The problem of assessing whether an omitted variable could change a statistical conclusion arises in case-control studies and in the analysis of employment data as both applications deal with observational studies rather than randomized designed ones. As the issues involved in assessing minority health disparities are quite similar to those arising in studying economic discrimination, they are adapting some regression techniques used in EEO cases for the analysis of data from complex surveys used in studying health inequalities. (See Dr. Gastwirth's home page for additional information on his research and background)

### **Education**

Ph.D. Mathematical Statistics, Columbia University, 1963

M.A. Pure Mathematics, Princeton University, 1960

B.S. (Summa Cum Laude) Mathematics, Yale University, 1958

### **Selected publications**

Statistical Reasoning in Law and Public Policy (1988) Vol. 1 Statistical Concepts and Issues of Fairness. Vol. 2. Tort Law, Evidence and Health. Academic Press: Orlando, Fla.

Statistical Science in the Courtroom (2000) edited by J.L. Gastwirth, Springer: NY.

Graubard, B.I., Rao, R.S. and Gastwirth, J.L. (2005) Using the Peters-Belson Method to Measure Health Care Disparities from Complex Survey Data. (to appear in Statistics in Medicine).

Small, D., Krieger, A.M., Gastwirth, J.L. and Rosenbaum, P.R. (2005). R-Estimates vs. GMM: A Theoretical Case Study of Validity and Efficiency. (to appear in Statistical Science).

Hanson, T, Johnson, W.O. and Gastwirth, J.L. (2005). Bayesian inference for prevalence and diagnostic test accuracy based on dual pooled screening (to appear in Biostatistics).

## **Andrew Gelman**

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Statistics and Political Science  
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### **Areas of Expertise**

Elections • Public opinion • Voting • Political science • Bayesian statistics

### **Brief Biography**

Andrew Gelman is a professor of statistics and political science and director of the Applied Statistics Center at Columbia University. He has received the Outstanding Statistical Application award from the American Statistical Association, the award for best article published in the American Political Science Review, and the Council of Presidents of Statistical Societies award for outstanding contributions by a person under the age of 40. His books include *Bayesian Data Analysis* (with John Carlin, Hal Stern, and Don Rubin), *Teaching Statistics: A Bag of Tricks* (with Deb Nolan), *Data Analysis Using Regression and Multilevel/Hierarchical Models* (with Jennifer Hill), and, most recently, *Red State, Blue State, Rich State, Poor State: Why Americans Vote the Way They Do* (with David Park, Boris Shor, Joe Bafumi, and Jeronimo Cortina).

### **Education**

S.B. (Mathematics and Physics), MIT, 1985/86

Ph.D. (Statistics), Harvard, 1990

### **Selected publications**

Carlin, John B., Gelman, Andrew, Rubin, Donald B., Stern, Hal S. *Bayesian Data Analysis*. Chapman & Hall/CRC, 2nd edition, 2003

Gelman, Andrew, Nolan, Deborah. *Teaching Statistics: A Bag of Tricks*. Oxford University Press, USA, 2002

Bafumi, Joseph, Gelman, Andrew, Park, David, Shor, Boris. *Red State, Blue State, Rich State, Poor State: Why Americans Vote the Way They Do*. Princeton University Press, 2008

## **Christopher Genovese**

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### **Areas/Topics of Expertise**

Nonparametric Inference • Function Estimation • Multiple Testing • Inverse problems • confidence procedures • Modeling • Neuroimaging • Astrophysics

### **Brief Biography**

A major focus of Dr. Genovese's research involves developing statistical methods for making effective inferences from data in complex scientific problems. He has tackled statistical problems in a wide variety of disciplines, including astrophysics, solid-state physics, and neuroscience. His work on applied problems involves capturing very complex physical processes with high-dimensional, often nonlinear, statistical models. He has developed new methods for statistical inference from functional Magnetic Resonance Imaging (fMRI) data. For example, his nonlinear, Bayesian model for the complex temporal structure of fMRI data enables investigators to infer the shape and magnitude of task-related signal changes and provides accurate assessments of the uncertainty in these inferences. Inferences about these changes can help cognitive neuroscientists understand how the brain subserves the tasks being studied. The model incorporates the best available information about the underlying physical processes generating the data, but it is also designed so that it can evolve as new research elucidates the key components of the system. Inferences based on model fits offer improved precision, and more importantly, the method makes it possible to use fMRI data to address scientific questions of interest that were inaccessible to previous methods. I have encoded this method in the BRAIN (Bayesian Response Analysis and Inference for Neuroimaging) software package, which is publicly available (bundled with FIASCO) and under continuing development. He is currently working to extend the model in several directions.

### **Education**

Ph.D. Mathematical Statistics, Columbia University, 1963

M.A. Pure Mathematics, Princeton University, 1960

B.S. (Summa Cum Laude) Mathematics, Yale University, 1958

### **Selected publications**

Genovese, C. R. and Sweeney, J. A. (to appear). Functional Connectivity in the Cortical Regions Subservicing Eye Movements (with discussion), in Case Studies in Bayesian Statistics, Volume 4, eds. Kass, R. E., Carlin, B. P., Carriquiry, A. L., Gatsonis, C., Gelman, A., Verdinelli, I., and West, M., Springer Verlag.

Genovese, C. and Wasserman, L. (2007), Adaptive Confidence Bands. To appear: The Annals of Statistics.

Genovese, C. and Wasserman, L. (2006), Exceedance Control of the False Discovery Proportion. Journal of the American Statistical Association, 101, 1408--1417.

Merriam, E.P., Genovese, C.R., and Colby, C.L.~(2003) Spatial Updating in Human Parietal Cortex. Neuron, 39, 361--373

Merriam, E.P., Genovese, C.R., and Colby, C.L.~(2007). Remapping in Human Visual Cortex, J. Neurophysiology. 97, 1738--1755.

**Malay Ghosh**

Distinguished Professor  
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**Areas/Topics of Expertise**

Census

**Brief Biography**

Prior to joining the faculty at the University of Florida in 1982, Dr. Ghosh was a professor of statistics at Iowa State University. In 1977 and 1978, he was an associate professor at the Indian Statistical Institute in Calcutta. Dr. Ghosh was a post-doctoral fellow in the Department of Biostatistics at the University of North Carolina in Chapel Hill from 1969-1970. He also served as a lecturer in statistics at Presidency College in Calcutta in 1965-66.

**Education**

Ph.D. (Statistics), University of North Carolina, Chapel Hill, North Carolina (1969)  
M.A. (Statistics) Calcutta University, Calcutta, (1964), First Class First, Gold Medalist  
B.A. (Statistics - Honors), Calcutta University, Calcutta (1962), First Class First, Gold Medalist.

**Selected publications**

Hierarchical and empirical Bayes approach towards adjustment of census undercount: The 1988 Missouri dress rehearsal data" (with G. Datta, E Huang, C. Isaki, L. Schultz, and J. Tsay) (1992). Survey methodology, 18, 95-108.

Small area estimation: an appraisal" (with J.N.K. Rao) (with discussion). (1994). Statistical Science, 9, 55-93.

Estimation of median income of four-person families: a Bayesian approach" (with G.S. Datta, K. Natarajan and N. Nangia) (1995). Bayesian Analysis in Statistics and Econometrics: Essays in Honor of Arnold Zellner. Eds. D.A. Berry, K.M. Chaloner, and J.K. Geweke. Wiley, New York, pp 129-140.

Estimation of median income of four-person families: a Bayesian time series approach" (with N. Nangia and D. Kim) (1996). Journal of the American Statistical Association, 91, 1423-1431.

Generalized Linear Models for Small Area Estimation" (with K. Natarajan, T.W.F. Stroud and B. Carlin). (1998). Journal of the American Statistical Association, 93, 273-282.

## **Mark Glickman**

Associate Professor, Health Policy & Management  
Boston University School of Public Health, and  
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## **Areas of Expertise**

Statistics in games and sports • Lotteries • Statistical applications in health and medicine

## **Brief Biography**

Mark Glickman is Associate Professor of Health Policy and Management in the Boston University School of Public Health, and Senior Statistician at the Center for Health Quality, Outcomes and Economics Research. He is well-known for inventing several rating systems for competitors in games and sports. Mark has had a long-standing interest in the application of statistical methods to rating tournament chess players, and has been chair of the U.S. Chess Federation's Ratings Committee over ten years. His recent statistical work includes developing models for explaining the genetic predisposition to late-onset diseases, latent variables models for measuring reaction time data in cognitive psychology experiments, and Bayesian optimal design for tournaments and competition. His work in health services included the determination of a plausibility index used to identify aberrant assessments of nursing home patients and facilities as a means of quality control, statistical modeling of automobile crash data for monitoring safety of airbags, and modeling physician treatment behavior for diabetes and hypertensive patients. Mark is also the co-editor of "Here's to your Health" column in *Chance* magazine.

## **Education**

Ph.D. (Statistics) Harvard University, 1993

M.A. (Statistics) Harvard University, 1989

B.A. (Statistics) *Summa Cum Laude*, Princeton University, 1986

## **Selected publications**

Glickman, Mark E. and Stern, Hal. S.(1998), "A state-space model for National Football League scores," *Journal of the American Statistical Association*, 93, 25-35.

Glickman, Mark E., and Gagnon, David R.(2002), "Modeling the effects of genetic factors on late-onset diseases in cohort studies." *Lifetime Data Analysis*, 8, 211-228.

Glickman, Mark E., and Jensen, Shane T.(2005), "Adaptive paired comparison design." *Journal of Statistical Planning and Inference*, 127, 279-293.

Chabris, Christopher F., and Glickman, Mark E. (2006) "Sex differences in intellectual performance: Analysis of a large cohort of competitive chess players" *Psychological Science*, 17, 1009-1107.

Glickman, Mark E. (2007) "Bayesian locally-optimal design of knockout tournaments." To appear in *Journal of Statistical Planning and Inference*.

**Dr. A. Blanton Godfrey**

Dean and Joseph D. Moore Distinguished University Professor  
College of Textiles  
North Carolina State University

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**Areas of Expertise**

Quality management • Quality improvement • Strategic planning and management • Six Sigma Quality  
• Health Care Quality

**Brief Biography**

Dr. Godfrey has been dean of the leading textiles college in the United States since July 2000. He was chairman and CEO of Juran Institute, Inc. from 1987 to July 2000. From 1973 to 1987 he was head of Quality Theory and Technology AT&T Bell Laboratories and an Adjunct Professor in the Industrial Engineering and Operations Research Department, Fu Foundation School of Engineering and Applied Science, at Columbia University for 19 years. He is an Academician of the International Academy of Quality; a Fellow of the American Statistical Association; Fellow of the American Society for Quality; Fellow of the Royal Society for the encouragement of Arts, Manufacturers, and Commerce; Fellow of the World Academy of Productivity Sciences; Member, Sigma Xi; Member of New York Academy of Sciences, and Founding Editor of ASQ's *Six Sigma Forum Magazine*. He is one of founding judges for United States Malcolm Baldrige National Quality Award and a member of the Board of Advisors of NC State University's new Institute for Advanced Analytics. Dr. Godfrey has worked in over 60 countries, published over 200 articles, books and book chapters, and received a number of awards including the Edwards medal from the American Society for Q, the Deming Lecturer for the American Statistical Association, and the Grayson Medal from the American Quality and Productivity Center.

**Education**

B.S. (Physics), Virginia Tech

M.S. (Statistics), Florida State University

Ph.D. (Statistics), Florida State University

**Selected publications**

Godfrey, A. Blanton and Ramon Leon (2007), Co-Editors for the Quality Management Section, *Encyclopedia of Statistics in Quality and Reliability*, Fabrizio Ruggeri, Ron S. Kenett, and Frederick W. Faltin, Editors-in-Chief, John Wiley & Sons Ltd., West Sussex, England.

Berwick, Donald M.; Godfrey, A. Blanton; and Roessner, Jane (2002), *Curing Health Care - New Strategies for Quality Improvement*, Paperback Edition with new chapter, John Wiley & Sons, New York.

Wadsworth, H.M., Stephens, K.S. and Godfrey, A.B. (2002), *Modern Methods for Quality Control and Improvement*, Second Edition, John Wiley and Sons, New York.

Juran, Joseph M. and A. Blanton Godfrey, co-editors-in-chief (1999), *Juran's Quality Handbook*, Fifth Edition, McGraw-Hill, New York.

**Peter Guttorp**

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University of Washington

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**Areas of Expertise**

Environmetrics • Stochastic processes in geosciences & hematology • Statistical climatology • Spatial and space-time statistics

**Brief Biography**

Intergovernmental Panel on Climate Change participant 93-01 Director of the National Research Center for Statistics and the Environment 96-02 Program chair, 7th International Meeting on Statistical Climatology 98 President of the International Environmetric Society 02-04 Swedish Environment Professor 04-05

**Education**

PhD (Statistics), UC Berkeley, 1980

BS (Mathematical statistics, mathematics and musicology) U. Lund, 1974 Journalism degree, Stockholm School of Journalism, 1969

**Selected Publications**

P. Guttorp (1995): Stochastic modeling of scientific data. London: Chapman & Hall.

G. C. Chiu and P. Guttorp (2006): Stream health index for the Puget Sound lowland. *Environmetrics* 17: 285-307.

P. Guttorp (2006): Setting environmental standards: A statistician's perspective. *Environmental Geosciences* 13: 261-266.

B. E. Shepherd, H.-P. Kiem, P. M. Lansdorp, G. Aubert, C. E. Dunbar, A. LaRochele, R. Seggewiss, P. Guttorp, J. L. Abkowitz (2007): Hematopoietic Stem Cell Behavior in Nonhuman Primates. To appear, *Blood*.

S. Aberg and P. Guttorp (2007): Distribution of the maximum in air pollution fields. To appear, *Environmetrics*.

**Charles B. Hall**

Associate Professor

Department of Epidemiology and Population Health, and Department of Neurology  
Albert Einstein College of Medicine of Yeshiva University

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**Areas of Expertise**

Aging • Epidemiology

**Brief Biography**

Charles B. Hall, Ph.D., is a biostatistician with extensive experience in methods for and analysis of data from longitudinal prospective epidemiologic studies. Since 2001, Dr. Hall has directed the Biostatistics Core of the Einstein Aging Study, one of the longest running prospective studies of aging in the elderly. Dr. Hall is also one of the instructors for the epidemiology course in the first year medical school curriculum at Einstein.

**Education**

B. A. (Applied Mathematics) Harvard

M. S. (Applied Mathematics) Johns Hopkins

Ph. D. (Biostatistics) Johns Hopkins

**Selected publications**

Hall C, Lipton RB, Sliwinski M, Stewart WF. A Change Point Model for Estimating the Onset of Cognitive Decline in Preclinical Alzheimer's Disease. *Statistics in Medicine* 19, 1555-1566, 2000.

Hall CB, Ying J, Kuo L, Sliwinski M, Buschke H, Katz M, Lipton RB. Estimation of bivariate measurements having different change points, with application to cognitive aging. *Statistics in Medicine* 20, 3695-3714, 2001.

Hall CB, Ying J, Kuo L, Lipton RB. Bayesian and Profile Likelihood Change Point Methods for Modeling Cognitive Function Over Time. *Computational Statistics and Data Analysis* 42, 91-109, 2003.

Hall CB, Verghese J, Sliwinski M, Chen Z, Katz M, Derby C, and Lipton RB. Dementia Incidence May Increase More Slowly After Age 90: Results from the Bronx Aging Study. *Neurology* 65: 882-886, 2005.

Hall CB, Derby CA, LeValley AJ, Katz MJ, Verghese J, Lipton RB. Education delays accelerated decline on a memory test in persons who develop dementia. *Neurology* 69:1657–1664, 2007.

**Philip Hanser**

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**Areas of Expertise**

Climate change • Energy

**Brief Biography**

Mr. Hanser's practice at Brattle includes issues ranging from utility industry structure and market power and associated regulatory questions, to specific operational and strategic questions, such as transmission pricing, generation planning, tariff strategies, fuels procurement, environmental issues, forecasting, marketing and demand-side management, and other management and financial issues. He has supported clients' efforts in insurance recovery of environmental liabilities arising from former manufactured gas plant sites, assessed liability risk in mass tort suits, and designed statistical database auditing procedures.

Mr. Hanser has appeared as an expert witness before the Federal Energy Regulatory Commission (FERC), the California Energy Commission (CEC), the New Mexico Public Service Commission (NMPSC), the Public Service Commission of Wisconsin (PSCW), the Vermont Public Service Board (VPSB), the Public Utilities Commission of Nevada (PUCN), the Connecticut Siting Commission, the Pennsylvania Department of Environmental Protection, and in federal and state courts. He served six years on the American Statistical Association's Advisory Committee to the Energy Information Administration (EIA). Mr. Hanser has taught at the University of the Pacific, University of California at Davis, and Columbia University, and guest lectured at the Massachusetts Institute of Technology, Stanford University and the University of Chicago.

**Education**

Ph.D. (Economics) Columbia University (candidacy requirements completed in Economics)

M.Phil. (Economics and Mathematical Statistics) Columbia University

A.B. (Economics and Mathematics) Florida State University,

**Selected publications**

"Utility Supply Portfolio Diversity Requirements," by Philip Q Hanser and Frank C. Graves, *The Electricity Journal*, June 2007.

"Rate Shock Relief," by Philip Q Hanser, Gregory Basheda, and Frank C. Graves, *Electric Perspectives*, May/June 2007.

"Financial Transmission Rights: Necessary or Burdensome?," by Metin Celebi and Philip Q Hanser, *IAEE Conference, Potsdam*, June 7, 2006.

"Electric Utility Automatic Adjustment Clauses: Benefits and Design Considerations," by Gregory Basheda, Philip Q Hanser, and Graves, Frank C., *The Brattle Group, Inc.*, June 2006.

"Can Wind Work In An LMP Market?," by Philip Q Hanser, Dan Harris, and Serena Hesmondhalgh, *Natural Gas & Electricity*, November 2005.

**William V. Harper**  
Professor  
Mathematical Sciences  
Otterbein College, Westerville, OH

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**Areas of Expertise**  
Geostatistics • Simulation • Oil & gas pipeline risk assessment

**Brief Biography**  
Dr. Harper is a full-time faculty member in the mathematical sciences department at Otterbein College. Statistics, simulation, and operations research are what he enjoys teaching the most. Before moving into academia in 1997 at Otterbein, Bill worked in engineering/statistical research and consulting for 20 years and traveled to over 25 countries including spending a considerable time in Saudi Arabia. Bill is a licensed engineer, a certified quality engineer, a certified reliability engineer, and a Fellow of the American Society for Quality.

**Education**  
PhD (Industrial & Systems Engineering), Ohio State University, 1984  
MS (Statistics), Ohio State University, 1976  
BS. (Computer Engineering), Ohio State University, 1974

**Selected publications**  
Co-author of book *Practical Geostatistics 2000* with Isobel Clark.....  
*Practical Geostatistics Case Studies 2009*

**Anthony Hayter, Ph.D.**

Chair and Professor  
Department of Statistics and Operations Technology  
University of Denver

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**Areas of Expertise**

Affirmative Action/Discrimination • Coincidences and Luck • Business • Law/Litigation •  
Physical/Engineering/Life Sciences

**Brief Biography**

Dr. Anthony Hayter is Professor and Chair of the Department of Statistics and Operation Technology in Denver University's Daniels College of Business, teaching in the executive MBA program, as well as at both undergraduate and graduate levels. His academic research focuses on data analysis, survey sampling, quality control and experimental design. Author of a popular textbook on probability and statistics, he has extensive consulting experience in the business world, with clients including insurance companies, retail companies, and various other businesses.

**Education**

Ph.D. (Statistics), Cornell University, 1985  
M.Sc. (Statistics), Cornell University, 1984  
M.A. (Mathematics), Cambridge University, 1986  
B.A. (Mathematics [triple first class]), Cambridge University, 1982

**Selected publications**

"Probability and Statistics for Engineers and Scientists" 3<sup>rd</sup> edition, Brooks-Cole, 2006.

"Wheelchair use by veterans newly prescribed a manual wheelchair," *Archives of Physical Medicine and Rehabilitation*, 88, 4, 434-439, 2007.

"Characterization of home range using point peeling algorithms," *Journal of Wildlife Management*, 70(2), 422-434, 2006.

"A probability analysis of the playoff system in sumo tournaments," *Recent Advances in Statistical Research and Data Analysis*, Springer-Verlag, 2002.

"Experimental designs and emission rate modeling for chamber experiments," *Atmospheric Environment*, vol. 27A, no. 14, 2225-2234, 1993.

**James L. Hess**

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Leggett & Platt

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**Areas of Expertise**

Industrial Statistics • Regression Analysis • Design of Experiments • Lean Manufacturing • Business

**Brief Biography**

James L. Hess is a Vice President of Leggett & Platt, Incorporated, with corporate responsibility for the Risk Management, Environmental Affairs, Leggett Business Systems, Continuous Process Improvement, and Logistics functions. He has been with Leggett & Platt for 14 years. Prior to joining Leggett & Platt, he worked for the DuPont Company for 15 years as a statistical consultant and a manager in their Quality Management & Technology Center. Before joining DuPont, he was on the faculty at Kansas State University. Jim received his Ph.D. in Statistics from Southern Methodist University in 1977. He is the author of several articles on the application of statistics to process improvement, and has coauthored a book titled *Statistical Design and Analysis of Experiments* published by John Wiley & Sons.

**Education**

Ph.D. (Mathematical Statistics), Southern Methodist University, 1977

M.S. (Mathematical Statistics), Southern Methodist University, 1975

B.S. (Applied Mathematics), University of Missouri-Rolla, 1973

**Selected publications**

R.L. Mason, R.F. Gunst, and J.L. Hess. *Statistical Design and Analysis of Experiments with Applications to Engineering and Science*, 2<sup>nd</sup> Edition, New York: John Wiley & Sons, 2003.

S. M. Montague, J. D. Howery, and J. L. Hess (2002). "A case for tensile specifications in the steel rod and wire industry," *Wire Journal International*, V. 35, No. 12, pages 69-73.

**Kent E. Holsinger**

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**Areas of Expertise**

Statistical issues in population genetics

**Brief Biography**

Kent Holsinger is a professor in the Department of Ecology and Evolutionary Biology and an adjunct professor in the Department of Statistics at the University of Connecticut. His research encompasses three broad areas: the evolution of plant reproductive systems, the genetics of geographically structured populations, and the application of basic biological principles to conservation problems. He develops mathematical and statistical models to gain insight into evolutionary and ecological processes, and he has applied those models to analysis of data from population of a variety of plants and animals, including humans.

**Education**

Ph.D. (Biological Sciences) Stanford University, 1982

B.S., Summa cum laude, Departmental Honors in Biology, The College of Idaho, 1978

**Selected publications**

Holsinger, K. E., and L. E. Wallace. 2004. Bayesian approaches for the analysis of population genetic structure: an example from *Platanthera leucophaea* (Orchidaceae). *Molecular Ecology* 13:887-894.

Morales, J. M., D. T. Haydon, J. Frair, K. E. Holsinger, and J. M. Fryxell. 2004. Extracting more out of relocation data: building movement models as mixtures of random walks. *Ecology* 85:2436-2445.

Song, S., D. K. Dey, and K. E. Holsinger. 2006. Hierarchical models with migration, mutation, and drift: implications for genetic inference. *Evolution* 60:1-12.

Holsinger, K. E. 2006. Bayesian hierarchical models in geographical genetics. In *Applications of Computational Statistics in the Environmental Sciences*, ed. J. S. Clark and A. E. Gelfand, pp. 25-37. New York, NY: Oxford University Press.

Bhattacharya, S., A. E. Gelfand, and K. E. Holsinger. Model fitting and inference under latent equilibrium processes. *Statistics and Computing* 17:193-208.

Evans, M. E., K. E. Holsinger, and E. S. Menges. Modelling the effect of fire on the demography of *Dicerandra frutescens* ssp. *frutescens* (Lamiaceae), an endangered plant endemic to Florida scrub. *Population Ecology* (in press).

## Valen Johnson

Professor & Deputy Chair of Biostatistics  
M.D. Anderson Cancer Center  
Houston, Texas

### Contact Information

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### Areas of Expertise

Grade inflation, student evaluations of teaching, and educational assessment • Peer review systems (especially the NIH peer review system) • Reliability analysis (specific experience with reliability of Space Shuttle) • Bayesian methods (especially the area of Bayesian hypothesis testing) • Replication of scientific studies • Ordinal data modeling

### Brief Biography

Dr. Johnson is Professor and Deputy Chair of Biostatistics at the University of Texas M.D. Anderson Cancer Center. Previous positions include Professor of Biostatistics at University of Michigan (2002-2004), Technical Staff Member, Los Alamos National Laboratory (2001-2002), and Professor of Statistics and Decision Sciences, Duke University (1989-2001). He is a fellow of the American Statistical Association and the Royal Statistical Society (UK), and an elected member of the International Statistical Institute (ISI). He currently serves as a member of the Board of Directors of the International Society for Bayesian Analysis (ISBA) and is an Associate Editor of *Bayesian Analysis*. He has previously served as Treasurer of ISBA and as an Associate Editor of *IEEE Transactions on Medical Imaging* and the *Journal of the American Statistical Association*. Dr. Johnson has written two books, *Grade Inflation: A Crisis in College Education* and *Ordinal Data Modeling* (joint with James Albert), is the author of over 70 scientific articles, and jointly holds two patents in the area of modeling gene expression data.

### Education

Ph.D (Statistics), University of Chicago, 1989

M.A.(Mathematics), University of Texas at Austin, 1985

B.S (Mathematics), Rensselaer Polytechnic Institute, 1981

### Selected publications

Johnson, V.E., (2005), "Bayes Factors Based on Test Statistics," *Journal of the Royal Statistical Society, Series B*, 67, 689-701.

Johnson, V.E. (2004), "A Bayesian Chi-squared Test for Goodness-of-Fit," *Annals of Statistics*, 32, 2361-2384.

Johnson, V.E., Deaner, R., and van Schaik, C. (2002), "Bayesian Analysis of Mult-Study Rank Data with Application to Primate Intelligence Ratings," *Journal of the American Statistical Association*, 8-17.

Johnson, V.E. (1998), "A Coupling-Regeneration Scheme for Diagnosing Convergence of Markov Chain Monte Carlo Algorithms," *Journal of the American Statistical Association*, 93, 238-248.

Johnson, V.E. (1997), "An Alternative to Traditional GPA for Evaluating Student Performance," *Statistical Science*, 251-278.

**Karen Kafadar**

Professor of Statistics & Chancellor's Scholar  
Dept. of Mathematical Sciences &  
Department of Preventive Medicine & Biometrics  
University of Colorado/Denver & Health Sciences Center

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**Areas of Expertise**

Statistical applications in physical/engineering/life sciences; cancer screening trials; statistics and forensic sciences; Internet traffic data; exploratory data analysis and data mining

**Brief Biography**

Karen Kafadar previously worked at the National Institute of Standards and Technology, where she currently continues her work as Guest Faculty Visitor on problems involving measurement accuracy, experiment design and analysis, and standard reference materials. She also held positions at Hewlett Packard Company (R&D laboratory for RF/Microwave test equipment), and the National Cancer Institute (Division of Cancer Prevention, Cancer Screening Section). She served on the NRC Committee on Scientific Assessment of Bullet Lead Elemental Composition Comparison (report issued in February 2004) and presently chairs the NRC Committee on Applied and Theoretical Statistics. At CU-Denver, she collaborates with researchers in the School of Medicine and teaches courses in applied and theoretical statistics. She has served on several editorial review boards and on governing boards for the American Statistical Association, the Institute of Mathematical Statistics, and the International Statistical Institute. In August 2008, Dr. Kafadar will join Indiana University as Rudy Professor of Statistics. She was elected ASA Fellow in 1994, has authored over 70 journal articles and book chapters, and has advised numerous M.S. and Ph.D. students.

**Education**

Ph.D. (Statistics) Princeton University, 1979

M.S. (Statistics) Stanford University, 1975

B.S. (Mathematics) Stanford University, 1975

**Selected publications**

Kafadar, K., Tukey, J.W.: U.S. cancer death rates: A simple adjustment for urbanization. *International Statistics Review* 61(2): 257-281, 1993.

Kafadar, K.: Smoothing geographical data, particularly rates of disease. *Statistics in Medicine* 15:23, 2539-2560, 1996.

Kafadar, K.; Phang, Tzulip: Transformations, Background Estimation, and Process Effects in the Statistical Analysis of Microarrays, *Computational Statistics and Data Analysis* 44(1-2), 313-338, 2003.

Kafadar, K.; Prorok, Philip C.: Computational Methods in Medical Decision Making: To Screen or Not to Screen? *Statistics in Medicine* 24: 569-581, 2005.

Kafadar, Karen; Wegman, Edward J.: Visualizing "typical" and "exotic" Internet traffic data. *Computational Statistics and Data Analysis* 50, 3721-3743, 2006.

## **Richard Kryscio**

Professor

Department of Statistics and Department of Biostatistics  
University of Kentucky

### **Contact Information**

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### **Areas of Expertise**

Alzheimer's Disease • Disease Clusters • Epidemics • Prevention • Clinical Trials

### **Brief Biography**

Dr. Richard J. Kryscio is Professor, Department of Statistics, College of Arts and Sciences and Chair, Department of Biostatistics, College of Public Health at the University of Kentucky (UK) where he has been on the faculty for the past twenty-six years. He has been the statistical collaborator on fifty five grants in the biomedical sciences in which he assumes responsibility for study design, power analysis, and data analysis. These grants cover diverse areas in biomedical research including traumatic brain injury, cancers of the central nervous system, screening for ovarian cancer, amyotrophic lateral sclerosis, Parkinson's Disease, and Alzheimer's Disease. He is an associate editor of the journal *Neurology*. Dr. Kryscio's research program emphasizes the application of applied probability to problems in public health. Specific interests include clinical trials, spread of infectious diseases, spatial statistics, the clustering of diseases in space and time, and statistical methodology in Alzheimer's disease research including longitudinal data analysis. He was elected a Fellow of the American Statistical Association in 1995, was the recipient of the Paul Minton award for service to the profession in 2006, and is serving as a University Research Professor at UK in the academic year 2007-2008.

### **Education**

Ph.D. (Statistics) State University of New York, Buffalo, 1971

M.S. (Statistics) State University of New York, Buffalo, 1968

B.S. (Mathematics) King's College (PA), 1966

### **Selected publications**

Kryscio, R.J. and Severo, N.C. Computational and estimation procedures in multidimensional right-shift processes and applications. *Advances in Applied Probability*, **7**, 1975, 349-382.

Patchell, R.A., Tibbs, P.A., Walsh, J.W., Dempsey, R.J., Maruyama, Y., Kryscio, R.J., Markesbery, W.R., MacDonald, J.S. and Young, B. A randomized trial of surgery in the treatment of simple metastasis to the brain. *New England Journal of Medicine*, 1990, 494-500.

Rayens, M.K. and Kryscio, R.J. Properties of Tango's index for detecting clustering in time. *Statistics in Medicine*, **12**, 1993, 1813-1828.

Lanska, D.J., Kryscio, R.J. Risk factors for peripartum and postpartum stroke and intracranial venous thrombosis. *Stroke*, **31**: 1274-1282, 2000.

Kryscio, R.J., Mendiondo, M.S., Schmitt, F.A., and Markesbery, W.R. Designing a large prevention trial: statistical issues. *Statistics in Medicine*, **23**:285-296, 2004

Tyas S L, Salazar J C, Snowdon D A, Desrosiers M F, Riley K P, Mendiondo, M S, Kryscio R J Transitions to mild cognitive impairment, dementia and death: findings from the NUN study. *Am. J. Epidemiology*, 2007, **165**(11): 1231-1238.

## **Peter A. (Tony) Lachenbruch**

Professor of Public Health  
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Oregon State University

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### **Areas of Expertise**

Biostatistics • Applications to Rheumatology • Drug regulation

### **Brief Biography**

Dr. Peter Lachenbruch has held positions on the faculties of the University of North Carolina (1965-1976), the University of Iowa (1976-1985), and UCLA (1985-1994). He was employed by the FDA/CBER from 1994 to 2005 and retired as the Director of the Division of Biostatistics. He is currently Professor of Public Health at Oregon State University (2006 – present). He is a Fellow of the American Statistical Association and a former elected member of the International Statistical Institute. He has held many professional offices and is President of the American Statistical Association for 2008.

Dr. Lachenbruch has statistical interests in Discriminant Analysis, Two-part Models, Model-Independent Inference, Statistical Computing, Drug Regulation and Data Analysis. He has application interests in Rheumatology, Psychiatry, Pediatrics, Gerontology and Accident Epidemiology. He has more than 180 publications in these fields. Dr. Lachenbruch serves on the Editorial Boards of *Statistics in Medicine*, *Methods of Information in Medicine*, *Journal of Biopharmaceutical Statistics*, and *Statistical Methods in Medical Research*. He has served on advisory panels to the George Mason University Department of Statistics, the Ohio State University Department of Statistics, Statistical Solutions, Cytel, and on the DSMB to several clinical trials.

### **Education**

B. A. (Mathematics) UCLA, 1958

M.S. (Mathematics) Lehigh University, 1961

Ph.D. (Biostatistics) UCLA 1965

### **Selected publications**

Lachenbruch, P.A. and Lynch, C.J. (1998) "Assessing Comparability of Screening Tests: Extensions of McNemar's Test" *Statistics in Medicine*, 17(9), 2207-2218

Lachenbruch, P. A., (2001) "Comparison of competitors to the two part model" *Statistics in Medicine* **20(8)** 1215-1234

Lachenbruch, P. A. (2003) "Proper Metrics for Clinical Trials: Transformations and Other Procedures to Remove Non-normality Effects" *Statistics in Medicine* **22**: 3823-3842

Lachenbruch, P. A., Foulkes, M.A. Epstein, J., Williams, A. (2004) "Use of the Scan Statistic for Quality Control in Blood Product Manufacturing" *J. Biopharmaceutical Statistics* **15(2)** 353-366

Lachenbruch, P. A., Rida, W. N., Kou, J. (2004) "Lot Consistency as an Equivalence Problem" *Journal of Biopharmaceutical Statistics* 14(2) 275-290

## **Michael Lavine**

Professor

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### **Areas of Expertise**

Bayesian Statistics/Methods • Ecology • Environmental issues • Neurophysiology •  
Nonparametric Inference

### **Brief Biography**

Lavine was Professor of Statistics at Duke University from 1987 until 2008, when he moved to the University of Massachusetts, Amherst. He is on the editorial boards of several journals and is a Fellow of the ASA. He works in Bayesian statistics, the foundations of statistics, and in many areas of application -- most recently Ecology and Neuroscience.

### **Education**

PhD, University of Minnesota, 1987

MA, Dartmouth University, 1977

BA, Beloit College, 1974

### **Selected publications**

Introduction to Statistical Thought. A free, internet textbook for mathematical statistics:

<http://www.math.umass.edu/~lavine/Book/book.html>.

Climate Change 2007 The Physical Science Basis: Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, Solomon, Susan; Qin, Dahe; Manning, Martin; Marquis, Melinda; Averyt, Kristen; Tignor, Melinda M. B.; Miller, Henry LeRoy Jr; and Chen, Zhenlin (eds.), 2007, one of many contributing authors, Cambridge University Press.

*Subjective Likelihood for the Assessment of Trends in the Ocean's Mixed-Layer Depth, with Comments and Rejoinder*, 2007, Ana Rappold, Michael Lavine, and Susan Lozier, *JASA*, 102, 771—787.

*Setting Standards for Water Quality in the Everglades*, 2003, Qian, Song S. and Lavine, M., *CHANCE*, 10—16.

*Net Primary Production of a Forest Ecosystem under Experimental CO<sub>2</sub> Enrichment*, 1999, Evan DeLucia, Jason Hamilton, Shawna Naidu, Richard Thomas, Jeffrey Andrews, Adrien Finzi, Michael Lavine, Roser Matamala, Jacqueline Mohan, George Hendrey and William Schlesinger, *Science*, 284, 1177--1179.

**Bruce Levin, Ph.D.**

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**Areas of Expertise**

Sequential Clinical Trial Design • Categorical Data Analysis • Conditional Likelihood Analysis • Statistics in Law • Reproductive Epidemiology

**Brief Biography**

Dr. Levin is the senior statistical consultant on several multicenter randomized clinical trials in the field of neurology and cardiology, including the WARCEF trial funded by NINDS (Warfarin versus Aspirin in Reduced Cardiac Ejection Fraction), the TNK trial (Tenecteplase versus rt-PA in acute stroke) and the QALS trial for ALS patients. He serves as the Director of the Statistics, Epidemiology, and Data Management (SED) Core of the HIV Center. Dr. Levin has a long-standing interest in statistical methodology for clinical trials, public health, and the law. Using sequential statistical methods, he has published on innovative trial designs, e.g., designs that minimize ethical costs, designs that emphasize the selection paradigm rather than the hypothesis test paradigm, and phase II trials that combine a selection phase with a non-superiority (futility) phase utilizing the same data. Dr. Levin is a Fellow of the American Statistical Association. He served for 10 years as Consulting Statistical Editor for the American Journal of Public Health. He has also served as an expert statistical witness in many court cases.

**Education**

Ph.D. (Applied Mathematics and Statistics), Harvard Univ, 1974  
M.A. (Mathematics), Harvard Univ, 1972  
B.A. (Mathematics, Summa Cum Laude), Columbia College, 1968

**Selected Publications**

Finkelstein, M.O. and Levin, B. (2001). *Statistics for Lawyers, 2nd Edition*. New York: Springer-Verlag (617 pp. with 55 illustrations).

Fleiss, J.L., Levin, B., and Paik, M.C. (2003). *Statistical Methods for Rates and Proportions, 3rd Edition*. New York: John Wiley & Sons (760 pp. with 16 illustrations).

Leu, C.-S. and Levin, B. (2008). On a Conjecture of Bechhofer, Kiefer, and Sobel for the Levin-Robbins-Leu Binomial Subset Selection Procedures. *Sequential Analysis* 27:106-125.

Finkelstein, M.O., Levin, B., McKeague, I.W., and Tsai, W.-Y. (2006). A Note on the Censoring Problem in Empirical Case-Outcome Studies. *Journal of Empirical Legal Studies* 3(2):375-395.

Pullicino, P., Thompson, J.L.P., Barton, B., Levin, B., Graham, S., and Freudenberger, R.S., on behalf of the WARCEF investigators (2006).

## **Michael (Mihail) Levine**

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Purdue University

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### **Areas of Expertise**

Function Estimation • Nonparametric Inference • Employment/Unemployment Trends •  
Empirical finance

### **Brief Biography**

Michael Levine has been an Assistant Professor of Statistics at the Department of Statistics, Purdue University since 2003. He received his Ph.D. in Statistics under the supervision of Prof. Lawrence D. Brown at the Wharton School, University of Pennsylvania. His current research interests include nonparametric function estimation and nonlinear time series with applications in applied economics, financial econometrics and medicine.

### **Education**

Ph.D. (Statistics), University of Pennsylvania, Wharton School, 2003  
M.A. (Statistics), University of Pennsylvania, Wharton School, 2000  
M.S. (Mathematical Statistics), Riga Technical University, Riga, Latvia, 1996  
B.S. (Applied Mathematics, with honors), Riga Technical University, Riga, Latvia, 1994

### **Selected publications**

T. Tony Cai, M. Levine and L. Wang "Variance Function Estimation in Multivariate Nonparametric Regression" – tentatively accepted by the Journal of Multivariate Analysis

G. E. Moore, M. Levine, J.D. Anderson, R.J. Trapp "Meteorological influence on the occurrence of gastric dilatation-volvulus in military working dogs in Texas" – accepted by the International Journal of Biometeorology, in press

L.Wang, Lawrence D. Brown, T.Tony Cai and M. Levine "Effect of mean on variance estimation in nonparametric regression" – accepted by the Annals of Statistics, in press

L.D. Brown, M. Levine "Difference-based variance function estimation in the nonparametric regression" –accepted by the Annals of Statistics, in press

M. Levine " Bandwidth selection for the variance estimators in the nonparametric regression: a possible approach" – Computational Statistics and Data Analysis (2005), Vol. 50, pp. 3405-3431

## **Professor Thomas A. Louis, PhD**

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### **Areas of Expertise**

Bayesian Methods • Risk Assessment • Health Services Research • Clinical Trials • Genomics

### **Brief Biography**

Dr. Louis is professor of Biostatistics, Johns Hopkins Bloomberg School of Public Health with prior positions as Assistant Professor of Mathematics, Boston University; Associate Professor of Biostatistics, Harvard SPH; Professor and Head of Biostatistics, University of Minnesota SPH; and Senior Statistical Scientist at Rand. Research includes risk assessment; environmental and public policy; Bayesian methods, the analysis of longitudinal data in both experimental and observational studies. Current applications include SNP association studies, assessing the health effects of airborne particulate matter, analysis of data from the United States Renal Data System; modeling of infectious diseases; clinical trials on the treatment of Uveitis and behavioral interventions to reduce obesity. He has published over 200 articles, books/chapters, monographs and discussions. From 2000-2003, Professor Louis was coordinating editor of *The Journal of the American Statistical Association*; for five years served on the editorial boards of *Biostatistics* and *Clinical Trials*. Currently, he serves as one of the three co-editors of the journal *Biometrics*. From 2005-2008 he served as vice-President and President of the International Biometric Society.

### **Education**

PhD (Mathematical Statistics), Columbia University, 1972

BA (Mathematics), Dartmouth College, 1966

### **Selected publications**

Walsh A, Louis TA, Glass G (2007). Detecting multiple levels of effect during survey sampling using a Bayesian Approach: Point prevalence estimates of a hantavirus in hispid cotton rats (*Sigmodon hispidus*). *Ecological Modeling*, 205: 29-38.

Thomas D, Jerrett M, Kuenzli N, Louis TA, Dominici F, Zeger S, Schwartz J, Burnett RT, Krewski D, Bates D (2007). Bayesian Model Averaging in Time Series Studies of Air Pollution and Mortality. *Journal of Toxicology & Environmental Health, Part A*, 70: 311-315.

Luo S, Crainiceanu C, Louis TA, Chatterjee N (2008). Analysis of Smoking Cessation Patterns using a stochastic mixed effects model with a latent cured state. *J. Am. Statist. Assoc*, 103: 1002-1013.

Lin R, Louis TA, Paddock S, Ridgeway G (2008). Ranking USRDS, provider-specific SMRs from 1998--2001. *Health Services Outcomes and Research Methodology*, DOI 10.1007/s10742-008-0040-0.

Carlin BP, Louis TA (2009). *Bayesian Methods for Data Analysis*, (3rd edition). Chapman and Hall/CRC, Boca Raton, FL.

**David Marker**

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Westat

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**Areas of Expertise**

Iraqi war deaths • Elections • Affirmative Action • Homelessness • Quality improvement

**Brief Biography**

Senior statistician at Westat for 24 years, primarily working in studies of the environment, housing, and other social services. Fellow of the ASA and elected member of the ISI. Chair of ASA Scientific and Public Affairs Advisory Committee.

**Education**

Ph.D (Biostatistics), University of Michigan, 1995

M.A. (Statistics), University of Michigan, 1980

B.S. (Mathematics), University of Maryland, 1978

**Selected publications**

Martin, J. and Marker, D.A. (2007). "Informed consent: Interpretations and practice on social surveys." *Social Science and Medicine*, 65, 2260-2271.

Marker, D.A. (in press). "Methodological review of 'Mortality after the 2003 invasion of Iraq: a cross-sectional cluster sample survey.'" *Public Opinion Quarterly*.

Marker, D.A. and Stevens, D. (in press). "Sampling and inference in environmental surveys." In C.R. Rao and D. Pfeiffermann (Eds.), Sample surveys: Theory, methods and inference. New York, John Wiley & Sons.

Marker, D.A. and Morganstein, D. R. (2004). "Keys to successful implementation of continuous quality improvement in a statistical agency." *Journal of Official Statistics*, 20(1), 125-136.

Jacobs, D.E., Clickner, R., Zhou, J.Y., Viet, S.M., Marker, D.A., Rogers, J.W., Zeldin, D.C., Broene, P., and Friedman, W. (2002). "The prevalence of lead-based paint hazards in U.S. housing." *Environmental Health Perspectives*, A599-A606.

**Edward L. Melnick**  
Professor of Statistics  
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New York University

### **Contact Information**

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### **Areas of Expertise**

Risk • Time series analysis • Forecasting • Actuarial Science • Finance

### **Brief Biography**

Dr. Edward Melnick is the former Chair of the Department of Statistics and Operations Research at the Stern School of Business at New York University (NYU). The number and impact of his publications were recognized by the American Statistical Association (ASA) when he became Fellow of the ASA. These publications include the 4 volume Encyclopedia of Quantitative Risk Analysis and Assessment and the book Creating Value in Financial Services: Strategies, Operations, and Technologies. He has won 16 teaching awards at NYU including the NYU Distinguished Teaching Award. Dr. Melnick has served in my capacities in the ASA including Chair of the Risk Section. He had worked in the U.S. Census Bureau for 7 years and has provided statistical consulting to financial institutions, marketing researchers, pharmaceuticals, retailing organizations, and utilities. He has also provided expert witness in a number of legal cases.

### **Education**

BA (Industrial Psychology), Lehigh University, 1960  
MS (Statistics & Mathematics), Virginia Polytechnic Institute, 1963  
PhD (Mathematical Statistics), George Washington University, 1970

### **Selected Publications**

Encyclopedia of Quantitative Risk Analysis and Assessment, John Wiley and Sons, 2008.

Creating Value in Financial Services, Kluwer Academic Publishers, 1999.

“Copulas and Other Measures of Dependency”, Encyclopedia of Quantitative Risk Analysis and Assessment, John Wiley and Sons, 2008.

“Determination of the Value of Risk”, Contingencies, 2000.

“Simultaneous Prediction Intervals for Multiple Forecasts”, Technometrics, 1987.

**Carl Morris**

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Harvard University

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**Areas of Expertise**

Sports • Health policy • Health services evaluation

**Brief Biography**

Dr. Morris joined Harvard in 1990 with Professorships evenly split between the Statistics Department, and the Department of Health Care Policy (Harvard Medical School); in 1995 he became chair of the Department of Statistics. He is a Fellow of the ASA, IMS, and Royal Statistical Society; an elected member of ISI; and a member of the Biometric Society. His research in the interface of statistical theory and scientific application has been aided by appointments in departments of statistics, mathematics, economics, health policy, and of behavioral sciences. Dr. Morris is best known for his contributions to the theory of hierarchical models and of empirical Bayes methods with applications to many fields, particularly including health care policy. Over the years this work has been supported by grants from the National Science Foundation, the Agency for Health Care Policy Research, the Veterans Administration, the U.S. Census Bureau, the Environmental Protection Agency, and the National Aeronautics and Space Administration. Hierarchical modeling applications of particular continuing relevance in health services research concern evaluating the quality of medical units. With collaborators and students at Harvard, and with Veterans Affairs researchers involved in profiling VA hospitals, Dr. Morris continues this research on mental and physical health and on medical profiling. Earlier work in health policy research spanned medical profiling, experimental design, and public policy experiments. Dr. Morris has also done pioneering work in the theory of statistics as applied to sports and competition, especially in baseball and tennis.

**Education**

Ph.D. Stanford University 1966  
M.S. Stanford University, 1964  
University of Indiana, 1960-62  
B.S. California Institute of Technology 1960

**Selected publications**

"Managing with Markov,?" Harvard Magazine, Vol. 104, No. 5, May-June 2002, pp.34-35, 85.

"Baseball" paper for Gardner G4-G5 Conference, Atlanta, GA, April 5-7, 2002.

"Large Scale Social Experimentation," International Encyclopedia of the Social and Behavioral Sciences, ed. Neil Smelser and Paul Baltes, New York, NY: Elsevier Science Ltd. 2001, (with Calvin Chu)

Discussion with Bradley Efron and Robert Tibshirani, ASA videotape series at University of Connecticut, Storrs, part of 17<sup>th</sup> Pfizer Colloquium, Nov. 5, 2001.

"Medical Profiling: Improving Standards and Risk Adjustments Using Hierarchical Models," Journal of Health Economics, 2001, 19(3), 291-309, (with J.F. Burgess, C.L. Christiansen and S.E. Michalak)

**Daniel J. Mundfrom, Ph.D.**

Professor of Applied Statistics and Research Methods  
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**Areas of Expertise**

Education • Program evaluation • Social science applications of statistical methods • Sports • Instrument development

**Brief Biography**

Daniel J. Mundfrom, Ph.D. is a professor of Applied Statistics and Research Methods, former chair of the Department of Applied Statistics and Research Methods and former director of the School of Educational Research, Leadership, and Technology at the University of Northern Colorado. He has 30 years of experience in education, include 8 years as a high school math teacher and coach and 22 years teaching mathematics, statistics and research methods at the university level. He has served on the editorial review boards for *Gifted Child Quarterly* and *Multiple Linear Regression Viewpoints* and has reviewed manuscripts for the *Journal of Statistical Education*, the *Journal of Statistical Computation and Simulation*, and the *European Journal of Combinatorics*. He has over 30 professional publications, and over 60 national, regional, or invited presentations, primarily addressing issues in statistical methodology and applications of that methodology in education and other disciplines. He has participated in the evaluation and assessment of three major educational initiatives, two in the State of Arkansas: Project MAST: Math and Science Together, and the Multicultural Reading and Thinking (McRAT) Program, and one in Colorado: Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP). He was the 2003 recipient of the M. Lucile Harrison Award, given annually to a UNC professor in honor of a "career of professional excellence" in teaching, scholarship, and service.

**Education**

Ph.D. (Statistics, Educational Research & Evaluation), Iowa State University, 1991

M.S. (Mathematics, Statistics), University of North Dakota, 1987

B.S. (Mathematics, Secondary Education, Athletic Coaching), University of North Dakota, 1977

**Selected publications**

Mundfrom, D. J., Heiny, R. L., & Hoff, S. (2005). Power ratings for NCAA division II football. *Communications in Statistics—Simulation and Computation*, 34(3), pp. 811-826.

Mundfrom, D. J., Shaw, D. G., & Ke, T. L. (2005). Minimum sample size recommendations for conducting factor analyses. *International Journal of Testing*, 5(2), pp. 159-168.

Mecklin, C. & Mundfrom, D. J. (2004). An appraisal and bibliography of tests for multivariate normality. *International Statistical Review*, 72(1), pp. 123-128.

Bradley, R., Mundfrom, D., Whiteside, L., Caldwell, B., Casey, P., Kirby, R., & Hanson, S. (1994). A re-examination of the association between HOME scores and income. *Nursing Research*, 43(5), pp. 260-266.

Mundfrom, D. J., Bradley, R. H., Whiteside, L. (1993). A factor analytic study of the infant-toddler and early childhood versions of the HOME inventory. *Educational and Psychological Measurement*, 53(2), pp. 479-490.

## **Douglas W. Nychka**

Director and Senior Scientist  
Institute for Mathematics Applied to Geosciences  
National Center of Atmospheric Research  
Boulder Colorado

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### **Areas of Expertise**

Spatial analysis of air pollutants • Statistical interpretation of climate models • Spatial patterns of climate • Uncertainty in climate projections and in climate statistics • Statistics for weather prediction

### **Brief Biography**

Dr. Nychka is director of the Institute for Mathematics Applied to Geosciences and also a Senior Scientist in the Geophysical Statistics Project (**GSP**), where he was the project leader until 2006. His main task is to enrich the scientific and educational activity at NCAR through mathematical methods and models. He also uses the large scientific projects at NCAR to engage the mathematical science communities in new applications and to motivate new mathematics. Some current personal research interests are nonparametric regression (mostly splines), statistical computing, spatial statistics and spatial designs. Despite his original thesis work on splines and inverse problems, a 1994-1996 EPA grant to work at the National Institute of Statistical Sciences caused a change in course to increased interest in spatial statistics and Bayesian methods for curve and surface fitting. He also spent 14 enjoyable years as a faculty member in the Statistics Department at North Carolina State University. His most recent research interests are a mathematical statistics project with Eva Furrer on the large sample properties of geostatistics estimators and, with Bo Li and Caspar Ammann, on an application of inverse methods and hierarchical models to the reconstruction of past climate.

### **Education**

Ph.D. (Statistics), University of Wisconsin – Madison, 1983  
B.A. (Mathematics and Physics), Duke University, 1978

### **Selected publications**

Wikle, C., Milliff, R., Nychka, D. and Berliner, L. M. (2001). "Spatiotemporal Hierarchical Bayesian Modeling: Tropical Ocean Surface Winds." *Journal of American Statistical Association*, 96, 382-397.

Gilleland, E. and Nychka, D. (2005) "Statistical Models for Monitoring and Regulating Ground-level Ozone," *Environmetrics*. 16, 535–546.

Cooley, D. D. Nychka, and P. Naveau. (2007) "Bayesian Spatial Modeling of Extreme Precipitation Return Levels." *Journal of the American Statistical Association*, 102, 824-840.

Smith, R.L., C. Tebaldi, D. Nychka and L.O.Mearns (2007). "Bayesian Modeling of Uncertainty in Ensembles of Climate Models." *Journal of the American Statistical Association* *In press*.

Jun, M., R. Knutti and D. Nychka.(2007). "Spatial Analysis to Quantify Numerical Model Bias and Dependence: How Many Climate Models Are There?" *Journal of the American Statistical Association* (In press.)

## **Robert L. (Bob) Obenchain**

Principal Consultant, Risk Benefit Statistics LLC

Adjunct Professor, Biostatistics, IU Medical School, Indianapolis

Senior Research Adviser (Retired), US Medical Outcomes Research, Eli Lilly

### **Contact Information**

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### **Areas of Expertise**

Nonrandomized / Observational Studies • Pharmaceutical Risk Benefit • Cost Effectiveness Inference • Robustness and Sensitivity • Statistical Computing

### **Brief Biography**

Dr. Bob Obenchain has held applied statistical research positions at AT&T Bell Labs, Holmdel, NJ (1969-1986), Glaxo (1986-1990) and Eli Lilly (1990-2007). He served as an Associate Editor of JASA Theory and Methods (1981-1985) and of the Journal of Biopharmaceutical Statistics (2001-2007). He also served as President of the Central Indiana chapter of ASA in 1993, 1997 & 2001 and is a Fellow of the ASA. His current statistical interests focus on evaluation of the safety, effectiveness and cost of marketed health care products. Traditional parametric models widely used in analysis of randomized clinical trials make strong assumptions that are frequently unrealistic in patient registry and claims database settings. Specifically, observational studies feature treatment selection bias (patient channeling), unobserved confounding factors (confusion about potential causality) and very large samples across heterogeneous patient subpopulations. Dr. Obenchain specializes in local, robust methods that detect patient differential response to treatment (evidence based medicine) via sensitivity analyses.

### **Education**

PhD (Mathematical Statistics), University of North Carolina, Chapel Hill, 1969.

BS (Engineering Science), Northwestern University, distinction, 1964.

### **Selected publications**

Obenchain RL. Use of Observational Data in Pharmacoeconomic Analyses: Adjustment for Treatment Selection Bias and Confounding. (Invited Review Paper.) *PharmacoEconomics* 2008 (in press)

Obenchain RL. ICE preference maps: nonlinear generalizations of net benefit and acceptability. *Health Serv Outcome Res Meth.* 2008; DOI: 10.1007/s10742-007-0027-2 ([www.springerlink.com](http://www.springerlink.com) free access.)

Obenchain RL. *RXshrink*: R package for maximum likelihood shrinkage in generalized (2-parameter) ridge and least angle regression (LAR.) <http://www.r-project.org> 2005.

Obenchain RL, Johnstone BM. Mixed-model imputation of cost data for early discontinuers from a randomized clinical trial. *Drug Info Journal* 1999; 33(1): 191-209.

Crown WE, Obenchain RL, Engelhart L, Lair TJ, Buesching DP, Croghan TW. The application of sample selection models in evaluating treatment effects: the case for examining the effects of antidepressant medication. *Stat Med* 1998; 17, 1943-1958.

**Susan Paddock**  
Senior Statistician  
RAND Corporation

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**Areas of Expertise**

Drug Abuse • Health Care Policy • Health Services Research • Medicare • Mental Health

**Brief Biography**

Susan Paddock is a senior statistician at the RAND Corporation and is Professor of Policy Analysis in the Pardee RAND Graduate School in Santa Monica, CA. She has been active in numerous studies in the areas of health care policy and drug policy, including quality of care for persons with co-occurring mental health & substance use disorders; Medicare payment policy; patient safety; and school-based drug prevention. Dr. Paddock's statistical expertise includes Bayesian methods, missing data, and hierarchical methods applied to profiling.

**Education**

Ph.D. (Statistics), Duke University, 1999  
M.S. (Statistics), Duke University, 1997  
B.A., summa cum laude (Biostatistics & Mathematics), University of Minnesota, 1994

**Selected Publications**

Paddock SM, Edelen MO, Wenzel SL, Ebener P, Mandell W, Dahl J (2007) Measuring Changes in Client-Level Treatment Process in the Therapeutic Community with the Dimensions of Change Instrument. *American Journal of Drug and Alcohol Abuse*, 33(4) 537-546.

Paddock SM (2007) Bayesian variable selection for longitudinal substance abuse treatment data subject to informative censoring. *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 56, 293-311

Paddock SM, Escarce JJ, Hayden O, Buntin MB (2007) Did the Medicare Inpatient Rehabilitation Facility Prospective Payment System Result in Changes in Relative Patient Severity and Relative Resource Use? *Medical Care*, 45(2), 123-130

Lin R, Louis TA, Paddock SM, Ridgeway G (2006) Loss Function Based Ranking in Two-Stage, Hierarchical Models. *Bayesian Analysis*, 1(4), 915-946

Watkins KE, Paddock SM, Zhang L, Wells K (2006) Improving Care for Depression in Patients with Comorbid Substance Misuse. *American Journal of Psychiatry*, 163, 125-132

## David W. Peterson

Semi-Retired

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### Areas of Expertise

- Use of Statistics in Litigation – How statistical evidence can be used to address aspects of disputes involving, e.g., employment discrimination, price collusion, high tech intellectual property, retirement benefits, jury selection or political redistricting.
- Forensic Decision Analysis – The objective determination of why past decisions were made the way they were.
- Political Redistricting – Reducing the politics in redistricting by making maximal use of existing city and county boundaries.

### Brief Biography

After two years as an officer in the US Army Signal Corps at Ft. Monmouth, NJ, where he worked on various mathematical and computer simulation models, Dr. Peterson joined the faculty of the Graduate School of Management at Northwestern University, where he taught courses in operations research, statistics and computer applications. While affiliated with Northwestern, he and his family spent a year in West Berlin where he did research on a variety of topics related to mathematical and statistical modeling. Moving to Duke University's business school as a full professor in 1974, he continued to teach and do research in areas related to mathematical and statistical modeling, and developed an interest in statistical methods for the detection and measurement of employment discrimination. Working with Walter B. Connolly, Jr., a Detroit labor attorney, he co-authored a book in 1980 on the use of statistics in equal employment opportunity litigation. That book continues in print, with updates every year or two. By 1979, the students involved in his consulting activities overflowed his home office and caused the formation and removal of PRI Associates, Inc. The firm assisted hundreds of legal teams, both plaintiff and defendant, with matters pertaining to the use of statistics in litigation, much of it related to employment discrimination allegations. The firm also handled a variety of other matters, providing affirmative action planning software and support, and the high-tech detective work necessary to prosecute or defend computer hardware and software infringement allegations. Taking adjunct status in the business school at Duke in 1984, Dr. Peterson subsequently joined the Duke statistics faculty, from which he retired in 1994. He then worked full time with PRI Associates (which merged into Peopleclick, Inc. in August 2000), retiring again in 2002. He continues to write and to work occasionally as an independent consultant.

### Education

BS University of Wisconsin – Madison 1962

MS Stanford University 1963

PhD Stanford University 1965, all in Electrical Engineering

### Selected Publications

*Use of Statistics in Equal Employment Opportunity Litigation*, with Walter B. Connolly, Jr., New York Law Journal Seminars Press, February 1980 (1982, 1983, 1985, 1987, 1988, 1989, 1991, 1992, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005).

Of Cherries, Fudge and Onions: Science and its Courtroom Perversions, with John M. Conley, *Law and Contemporary Problems*, Vol. 64, No. 4, Autumn 2001, pp. 213-240.

Cohort Analysis: A Regression Plain and Fancy, *Journal of Forensic Economics*, 16(2), 2003, pp. 153-176.

*Why Did They Do That? An Introduction to Forensic Decision Analysis*, Lulu Press, Morrisville NC, 2007.

Putting Chance to Work: Reducing the Politics in Political Redistricting, *Chance*, Vol. 21, No. 1, 2008, pp 26-30.

## **Walter W. Piegorsch**

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Graduate Interdisciplinary Program (GIDP) in Statistics  
The University of Arizona

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### **Areas of Interest**

Environment • Environmetrics • Risk Analysis • Statistics Education • History of Statistics

### **Brief Biography**

Dr. Piegorsch's research focuses on modeling and analysis for environmental data, with emphasis on environmental hazards and risk assessment. He has been supported for this work for 10 years by the U.S. National Cancer Institute and more recently by the U.S. Environmental Protection Agency. His interests also include ways to translate risk-analytic methodologies to other areas in public health, including geo-spatially referenced disaster informatics, multiple/simultaneous inferences for toxicological and genetic endpoints, and the historical development of statistical thought as prompted by problems in the biological and environmental sciences. For 2006-2008 he serves as Joint-Editor of the *Journal of the American Statistical Association* (Theory & Methods Section). Dr. Piegorsch has been honored as a Fellow of American Statistical Association (1995), a Member (by Election, 1995) of the International Statistical Institute, and has received the Distinguished Achievement Medal of the American Statistical Association Section on Statistics and the Environment (1993), and the University of South Carolina Educational Foundation Research Award for Science, Mathematics, and Engineering (2000).

### **Education**

Ph.D. (Statistics), Cornell University, Ithaca, NY, 1984  
M.S. (Statistics), Cornell University, Ithaca, NY, 1982  
B.A. (Mathematics), magna cum laude, Colgate University, Hamilton, NY, 1979

### **Selected Publications**

Borden, K., Schmidlein, M.C., Emrich, C.T., Piegorsch, W.W. and Cutter, S.L. Vulnerability of U.S. cities to environmental hazards. *Journal of Homeland Security and Emergency Management* **4** (2), Art. 5 (2007); <http://www.bepress.com/jhsem/vol4/iss2/5>.

Piegorsch, W.W. and Bailer, A.J. *Analyzing Environmental Data*. Chichester: John Wiley & Sons (2005).

Piegorsch, W.W. and West, R.W. Benchmark analysis: shopping with proper confidence. *Risk Analysis* **25**, 913-920 (2005).

Piegorsch, W.W., Simmons, S.J., and Zeiger, E. Data mining potency estimators from toxicological databases. *Bulletin of Informatics and Cybernetics* **36**, 51-62 (2004).

El-Shaarawi, A.H. and Piegorsch, W.W., eds. *Encyclopedia of Environmetrics*, Vols. 1 to 4. Chichester: John Wiley & Sons (2002).

**C. Shane Reese**

Associate Professor  
Department of Statistics  
Brigham Young University

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**Areas/Topics of Expertise**

Environmental issues • Reliability analysis • Sports

**Brief Biography**

Shane Reese's research interests include Bayesian hierarchical models with applications to environmental problems, reliability, computer experiments, and sports. In addition, Dr. Reese has served on a National Academy of Science Committee on Test and Evaluation of Biological Standoff Detection Systems. He is the two-time winner of the Journal of the American Statistical Association Case Studies and Applications Paper of the Year. He has served twice as Chapter President (Utah and Albuquerque, NM Chapters) of the American Statistical Association. He is the winner of the BYU University Young Scholar Award and the Texas A&M University Department of Statistics Hartley Award honoring a Distinguished Alumnus.

**Education**

Ph.D. (Statistics), Texas A&M University, 1999  
M.S. (Statistics), Brigham Young University, 1955  
B.S. (Statistics), Brigham Young University, 1994

**Selected publications**

Wilson, A.G., Graves, T.L., Hamada, M.S. and Reese, C.S. (2006). "Advances in Data Combination, Analysis and Collection for System Reliability Assessment". *Statistical Science*, 21, 514-531.

Reese, C.S., Wilson, A.G., Hamada, M.S., Martz, H.F., and Ryan, K.J. (2004). "Integrated Analysis of Computer and Physical Experiments", *Technometrics*, 46, 153-164.

Graves, T.L., Reese, C.S., and Fitzgerald, M. (2003). "Hierarchical Models for Permutations: Analysis of Auto Racing Results," *Journal of the American Statistical Association*, 98, 282-291.

Reese, C.S., Calvin, J.A., George, J.C. and Tarpley, R.A. (2001). "Estimation of Gestation in Bowhead Whales" (with Discussion). *Journal of the American Statistical Association*, 96, 915-938.

Berry, S.M., Reese, C.S. and Larkey, P.M. (1999). "Bridging Different Eras in Sports" (with Discussion). *Journal of American Statistical Association*, 94, 661-684.

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### **Areas of Expertise**

Confidentiality • Sports • Teaching • Statistical Disclosure • Privacy

### **Brief Biography**

Jerry has been a member of the ASA Committee on Privacy and Confidentiality and two National Academy of Sciences panels related to confidentiality of data. He has been the Program Chair and Section Chair of ASA Section on Statistics in Sports. He received the Alumni Distinguished Undergraduate Teaching Award from Duke University in 2007. His primary research focus has been investigating statistical methods of preserving data confidentiality. More generally, he is interested in the analysis of complex surveys, especially missing data methods and causal inference.

### **Education**

BS Mathematics, Duke University, 1992.  
PhD Statistics, Harvard University, 1999.

### **Selected publications**

Reiter, J. P. (2005), "Estimating risks of identification disclosure for microdata," *Journal of the American Statistical Association*, 100, 1103 - 1113.

Reiter, J. P. (2005), "Releasing multiply-imputed, synthetic public use microdata: An illustration and empirical study," *Journal of the Royal Statistical Society, Series A*, 168, 185 – 205.

Gomatam, S., Karr, A. F., Reiter, J. P., Sanil, A. P. (2005), "Data dissemination and disclosure limitation in a world without microdata: A risk-utility framework for remote access servers," *Statistical Science*, 20, 163 – 177.

Reiter, J. P. (2004), "New approaches to data dissemination: A glimpse into the future (?)" *Chance*, 17:3 (Summer 2004), 12 - 16.

Reiter, J. P. (2004), "Should teams walk or pitch to Barry Bonds?" *Baseball Research Journal*, 32, 63 – 69.

**John Robinson**

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**Areas of Expertise**

Clinical trials • Data mining • Disease management • Evidence-based medicine • Managed care

**Brief Biography**

John Robinson is a healthcare management and statistical consultant who holds doctoral degrees in medicine, biostatistics, and health policy. For well over a decade he has served as a consultant to organizations involved in managed care, disease management, practice guideline development, and other aspects of healthcare delivery. He also serves as a faculty associate at the Johns Hopkins University Bloomberg School of Public Health, where he teaches clinical research methods to doctoral students and medical school faculty. He previously served as chief medical officer of a managed care organization and practiced psychiatry in academic, public, and private practice settings.

**Education**

PhD (Biostatistics), Johns Hopkins University, 2005.

PhD (Health Policy and Management), Johns Hopkins University, 1996.

MD (Medicine), University of California, Los Angeles, 1980.

AB (Biochemistry), University of California, Berkeley, 1976.

**Selected publications**

Robinson, J.W. (2008), "Regression Tree Boosting to Adjust Health Care Cost Predictions for Diagnostic Mix," *Health Services Research* (OnlineEarly Articles).  
doi:10.1111/j.1475-6773.2007.00761.x.

Robinson, J. W., Zeger, S. L., and Forrest, C. B. (2006), "A Hierarchical Multivariate Two-Part Model for Profiling Providers' Effects on Healthcare Charges," *Journal of the American Statistical Association*, 101, 911-923.

## **Christopher H Schmid, PhD**

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### **Areas of Expertise**

Biostatistics • Meta-analysis • Bayesian inference • Clinical Trials • Statistical computation

### **Brief Biography**

Dr. Schmid directs the concentration in biostatistics and epidemiology in Clinical Research at Tufts Sackler School of Biomedical Sciences. He has served as Program Chair for the Health Policy Statistics section of the ASA as well as Co-Chair of the 7<sup>th</sup> International Conference on Health Policy Statistics. He is Co-Editor of the new journal, *Research Synthesis Methodology*, and is statistical editor for the *American Journal of Kidney Diseases*. He has served on study sections with several US Federal agencies, is a member of the FDA Orthopaedic and Rehabilitation Devices Panels, consults with the European Medicines Agency and serves on the External Advisory Committee for ECRI. He has served on several data safety monitoring and steering committees for and consults extensively on clinical research with industry, academia and government. Major research interests include development and application of Bayesian models to clinical research, statistical methods and computational tools for meta-analysis, methods for combining and analyzing data from multiple clinical trials and clinical studies and methods for handling missing time-dependent data in longitudinal studies. Examples of recent work include the use of hierarchical Bayesian models for daily childhood growth, meta-analysis of heterogeneous data, meta-analysis of community-based N-of-1 trials, Bayesian approaches to sample size calculations, development of prediction equations for the glomerular filtration rate, clinical and genetic studies of chronic Lyme disease patients, and missing data methods in predictive models.

### **Education**

PhD (Statistics), Harvard University, 1991

A.M. (Statistics), Harvard University, 1987

B.A. (Mathematics), Haverford College, 1983

### **Selected publications**

Schmid CH and Rosner B. A Bayesian Approach to Logistic Regression Models Having Measurement Error Following a Mixture Distribution. *Statistics in Medicine* 12:1141-1153, 1993.

Schmid CH. An EM Algorithm Fitting First-Order Conditional Autoregressive Models to Longitudinal Data. *Journal of the American Statistical Association* 91:1322-1330, 1996.

Schmid CH, Lau J, McIntosh MW and Cappelleri JC. An Empirical Study of the Effect of the Control Rate as a Predictor of Treatment Efficacy in Meta-Analysis of Clinical Trials. *Statistics in Medicine* 17:1923-1942, 1998.

Schmid CH. Marginal and Dynamic Regression Models for Longitudinal Data. *Statistics in Medicine* 20: 3295-3311, 2001.

Schmid CH, Stark PC, Berlin JA, Landais P and Lau J. Meta-regression detected associations between heterogeneous treatment effects and study-level, but not patient-level, factors. *Journal of Clinical Epidemiology* 57: 683-697, 2004.

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### **Areas of Expertise**

Biometrics • Nonlinear modeling • Statistical Computation • Biological/Ecological Applications • Experimental Design

### **Brief Biography**

Bahman Shafii, Ph.D. is Professor and Director of Statistical Programs, College of Agricultural and Life Sciences, University of Idaho. He is also an Adjunct Professor of Business. He has taught various statistical and mathematical courses at both undergraduate and graduate levels. Dr. Shafii has over 25 years of experience in statistical consultation. He has published over 100 refereed articles in statistical, agricultural, biological, and environmental journals.

### **Education**

B.S. (Agronomy/Agricultural Engineering), Rezaeyeh University, 1977.  
M.S.(Agricultural Economics), University of Idaho, 1980.  
M.S.(Statistics) University of Idaho, 1982.  
Ph.D.:(Forest Biometrics), University of Idaho, 1988.

### **Selected publications**

Shafii, Bahman and W.J. Price. 2005. Bayesian analysis of dose-response calibration curves. *Applied Statistics in Agriculture*, J. E. Boyer (Ed.), Kansas State University, Manhattan, Kansas, pp. 126-136.

Mosley, Erin. E., B. Shafii, P. J. Moate, and M.A. McGuire. 2006. Cis-9, trans-11 conjugated linoleic acid is synthesized directly from vaccenic acid in lactating dairy cattle. *Journal of Nutrition*, 136: 570-575.

Mahler, Robert L., and B. Shafii. 2007. Relationship between soil-test boron and lentil yields in the inland Pacific Northwest. *Communications in Soil and Plant Analysis* 38: 1193-1202.

Shafii, Bahman, J. W. Price, T. S. Prather, L. W. Lass, and D. C. Thill. 2004. Using landscape characteristics as prior information for Bayesian classification of yellow starthistle. *Weed Science*, 52:948-953.

Shafii, Bahman and W.J. Price. 2001. Estimation of cardinal temperatures in germination data analysis. *Journal of Agricultural, Biological and Environmental Statistics*, 6(3): 356-366.

Shafii, Bahman, and W.J. Price. 1998. Analysis of genotype-by-environment interaction using the additive main effect and multiplicative interaction model and stability estimates. *Journal of Agricultural, Biological, and Environmental Statistics*, 3(3): 335-345.

## **Mack Clayton Shelley, II**

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### **Areas of Expertise**

Elections and voting behavior • Aging • Polling • Program evaluation • Social science applications of statistical methods

### **Brief Biography**

Mack Shelley is a University Professor of Statistics, Political Science, and Educational Leadership and Policy Studies at Iowa State. From 2003-2007 he served as Director of the Research Institute for Studies in Education, and from 1999-2007 was a Professor in the Department of Educational Leadership and Policy Studies. He has served as co-editor of the *Policy Studies Journal* (1993-2002), was a member of the Editorial Advisory Board for *TESOL Quarterly* (2003-05), and currently is Associate Editor of the *Journal of Information Technology & Politics*. His research, external funding, and teaching focus on statistical methods, public policy, and program evaluation. He has served as Co-Principal Investigator for the Iowa Department of Education on the "Iowa Positive Behavioral Supports for Children and Youth" and subsequent related awards, principal Investigator for an evaluation of the Early Reading First program for the Des Moines Independent Community School District, principal Investigator for the Iowa Department of Public Health and Center for Substance Abuse Prevention on analysis of tobacco sales for the Synar underage tobacco-cessation program, evaluator for the Iowa Department of Education on improving elementary science by connecting science inquiry and language arts, and an evaluator for the National Science Foundation project, "When Science and Literacy Meet: Creating Support for Teachers Implementing Writing in the Science Classroom." He serves regularly as a statistical consultant for researchers, administrators, program staff, and students and has received awards for research, teaching, and professional practice.

### **Education**

Ph.D. (Political Science) University of Wisconsin-Madison, 1977

M.S. (Economics) University of Wisconsin-Madison, 1973

B.A. (International Studies and Economics) American University, 1972

### **Selected publications**

Mack Shelley, Larry Yore, and Brian Hand (Eds.), *Gold Standard(s) of Quality Research in Science Literacy: Science Education, Reading, Statistics, and Other Adventures in Science-Based Research*—forthcoming (2008).

Mack C. Shelley, II, "Multivariate Techniques for Dichotomous Dependent Variables," pp. 409-452 of Marcia L. Whicker and Gerald J. Miller (Eds.), *Handbook of Data Analysis and Quantitative Methods in Public Administration* (New York, NY: Marcel Dekker, 1998).

Joyce M. Mercier and Mack C. Shelley, II, "Access to Health Care Among Three Cohorts of Older Americans Residing in a Rural State: Comparative Structural Equations Models," pp. 155-180 of Joyce M. Mercier, Steven Garasky, and Mack C. Shelley, II, (Eds.), *Redefining Family Policy: Implications for the 21st Century* (Ames, IA: Iowa State University Press, 2000).

Lisa E. Thrane, Stuart W. Shulman, Mack C. Shelley, Sally R. Beisser, and Teresa B. Larson, "Does Computer Training Translate to E-political Empowerment among Midwestern Senior Citizens?," pp. 159-173 in Birgit Jaeger (Ed.), *Young Technologies in Old Hands—An International View on Senior Citizens' Utilization of ICT*. (Copenhagen, Denmark: DJØF, 2005).

Darin Wohlgenuth, Don Whalen, Julia Sullivan, Carolyn Nading, Mack Shelley, and Yongyi (Rebecca) Wang, "Financial, Academic, and Environmental Influences on the Retention and Graduation of Students," *Journal of College Student Retention: Research, Theory & Practice*, 8(4), 457-475 (2006-2007).

## Yu Shyr, PhD

Ingram Professor of Cancer Research, Vanderbilt University School of Medicine  
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### Areas of Expertise

Cancer treatment/screening • Biopharm/clinical trials • Biostatistics • Data analysis/mining/monitoring

### Brief Biography

In addition to the positions above, Dr. Shyr directs the Biostatistics Core for the NCI-funded Vanderbilt University Breast Cancer SPORE, GI Cancer SPORE, Lung Cancer SPORE, and other program projects. At Vanderbilt, he has collaborated on numerous biostatistical projects, assisted investigators in developing clinical research protocols, collaborated on several grants funded through external peer-reviewed mechanisms, and developed several biostatistical methodology papers. Dr. Shyr has delivered more than 150 abstracts at professional meetings and published more than 200 peer-reviewed papers in a variety of journals. He currently serves as a member of the NCI Developmental Therapeutics Study Section, as well as on the SPORE review panel. Dr. Shyr's current research interests lie in developing and analyzing predictive models of the statistical relationships between multiple-variable protein and RNA expression data and clinical endpoints using both supervised and unsupervised classification and pattern recognition approaches, in which researchers focus on analyses of gene expression array and protein expression profile data to identify the molecular "fingerprint" of different types of cancers.

### Education

Ph.D. (Biostatistics), University of Michigan, Ann Arbor, 1994

M.S. (Statistics), Michigan State University, 1989

B.B. (Statistics), Tamkang University (Taiwan), 1985

### Selected publications

Yanagisawa K, Shyr Y, Xu BJ, Massion PP, Larsen PH, Whit BC, Roberts JR, Gonzalez A, Nadaf S, Moore JH, Caprioli RM, Carbone DP. Tumor proteomic patterns predict classification and tumor behavior in human non-small cell lung cancer. *Lancet* 2003;362(9382):433-439.

Frangoul H, Al-Jadiry MF, Shyr Y, Ye F, Shakhtour B, Al-Hadad SA. Chemotherapy shortage in Iraq and outcome of childhood acute lymphocytic leukemia. *N Engl J Med.* 2008;359(4):435-437.

Chen S, Li M, Hong D, Billheimer D, Li H, Xu BJ, Shyr Y. A novel comprehensive wave-form MS data processing method. *Bioinformatics* [in press].

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### **Areas of Expertise**

Evidence-Based Medicine • Medical diagnostic tests • Pediatric research • Research ethics

### **Brief Biography**

Steve Simon has provides statistical consultation on a wide range of pediatric research studies at Children's Mercy Hospital in Kansas City, MO. He previously supervised a small group of Statisticians and Programmers at the National Institute for Occupational Safety and Health. He is the author of a book, *Statistical Evidence in Medical Trials*, that discusses how to evaluate claims made in the medical journals. He is also the creator of the StATS website (Steve's Attempt to Teach Statistics, [www.childrensmc.org/stats/](http://www.childrensmc.org/stats/)) which includes more than one thousand pages of information about Statistics, Research Ethics, and Research Methodology. On these web pages are the likelihood ratio slide rule, a tool to help clinicians make intelligent recommendations about diagnostic test results, and a short guide offering practical advice about diagnostic tests.

### **Education**

Ph.D. (Statistics), University of Iowa, 1982  
M.S. (Statistics), University of Iowa, 1978  
B.A. (Mathematical Sciences), University of Iowa, 1977

### **Selected publications**

*Statistical Evidence in Medical Trials. What Do the Data Really Tell Us?* Stephen D. Simon (2006)  
Oxford, UK: Oxford University Press.

The link between the Hippocratic Oath and evidence-based medicine. C. Dinakar, S. Simon. *Ann Allergy Asthma Immunol* 2006; 96(4); 511-3.

Is 3-mm Less Drowsiness Important? Jay M Portnoy, Stephen D Simon. *Annals of Allergy, Asthma and Immunology* 2003; 91(4); 324-325.

Understanding the odds ratio and the relative risk. Stephen D Simon. *J Androl* 2001; 22(4); 533-6.

Is the randomized clinical trial the gold standard of research? Stephen D Simon. *Journal of Andrology* 2001; 22(6); 938-43.

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Statistics and Decision Sciences  
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### **Areas of Expertise**

Risk Analysis • Reliability • Bayesian Statistical Methods

### **Brief Biography**

Nozer D. Singpurwalla has been Visiting Professor at Carnegie-Mellon University, Stanford University, the University of Florida at Tallahassee, and the University of California at Berkeley. During Fall 1991, he was the first C. C. Garvin Visiting Endowed Professor in the Mathematical Sciences at the Virginia Polytechnic Institute and State University. He is Fellow of the Institute of Mathematical Statistics, the American Statistical Association, and the American Association for the Advancement of Science, and he is an elected member of the International Statistical Institute. He is the 1984 recipient of the U.S. Army's S. S. Wilks Award for Contributions to Statistical Methodologies in Army Research, Development and Testing, and the first recipient of The George Washington University's Oscar and Shoshana Trachtenberg Prize for Faculty Scholarship. He has coauthored a standard book in reliability and has published 157 papers on reliability theory, warranties, failure data analysis, Bayesian statistical inference, dynamic models and time series analysis, quality control and statistical aspects of software engineering. In 1993 he was selected by the National Science Foundation, the American Statistical Association and the National Institute of Standards and Technology as the ASA/NIST/NSF Senior Research Fellow. In 1993 he was awarded a Rockefeller Foundation Grant as a Scholar in Residence at the Bellagio, Italy Center.

### **Education**

Ph.D. New York University, 1968

M.S. Rutgers University, 1964

B.S. B.V.B. College, India, 1959

### **Selected publications**

"Information Fusion for Damage Prediction" N.D. Singpurwalla, Y. Cui, C.W. Kong. (2003) In *Case Studies in Reliability and Maintenance* (Blischke, Murthy, Ed.) John Wiley and Sons, Inc., New York, 251-265.

"Testing the Untestable: Reliability in the 21st Century" (with discussion) N.D. Singpurwalla, T.R. Bement, J.M. Booker, S. Keller-McNulty. (2003) *IEEE Transactions in Reliability*: 10, 1, 53-78.

"Dependence in Network Reliability" N.D. Singpurwalla. (2002) *Proceedings of the 5th International Conference on Information Fusion*: IEEE Cat. No. 02EX5997C, 981-985.

"Some Cracks in the Empire of Chance: Flaws in the Foundations of Reliability" N.D. Singpurwalla. (2002) *International Statistical Review*: 10, 1, 53-78.

"Software Reliability and the Operational Profile" (with Discussion) N.D. Singpurwalla, T.A. Mazzuchi, S. Ozekici, R. Soyer. (2002) *Handbook of Statistics* (C.R. Rao, R. Khattre, Eds.) To Appear.

**Dr. Howard N. Snyder**  
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### **Areas of Expertise**

Juvenile crime and juvenile justice statistics and research

### **Brief Biography**

Dr. Howard Snyder has been the Director of Systems Research at the National Center for Juvenile Justice since 1981. For more than 25 years he also has served as the Director of the National Juvenile Court Data Archive. His research has focused on the nature of violent crime by and against juveniles, differences in the daily cycles of violent crime, juvenile suicide characteristics and trends, age and racial bias at arrest, the developmental structure of juvenile delinquent careers, racial and gender disparity in justice system processing, juvenile transfers to criminal court, and international differences in juvenile crime and justice systems. In collaboration with many colleagues, his publications have provided an accurate understanding of juvenile crime and victimization and the activities of the juvenile justice system. He has pioneered efforts to disseminate this valuable information via printed reports and the Internet to the media and the general public. He was honored in 1998 by the U.S. Department of Justice with its *Award for Achievement for Service to Families and Children*, in 2004 by the National Juvenile Court Services Association with its *Outstanding Achievement Award*, and for his lifetime contribution to research by the American Correctional Association with its *Peter P. Lejins Research Award*. In 2001 he assumed the Maurice B. Cohill Jr. Juvenile Justice Policy Research Chair at NCJJ. He served for four years as Chair of the American Correctional Association's Research Council and is currently the Chair of the American Statistical Association's Committee on Law and Justice Statistics.

### **Education**

Ph.D. (Social Psychology) University of Pittsburgh, Pittsburgh, PA, 1981  
M.S. (Social Psychology) University of Pittsburgh, Pittsburgh, PA, 1977  
B.S. in Physics and Mathematics, Westminster College, New Wilmington, PA, 1968

### **Selected publications**

Snyder, H. and Sickmund, M. *Juvenile Offenders and Victims: 2006 National Report*. Washington, DC: U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention, 2006.

Snyder, H. *Juvenile Arrests 2006*. Washington, DC: U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention, 2007 (forthcoming).

Snyder, H. Is Suicide More Common Inside or Outside of Juvenile Facilities? *Corrections Today*, February, 2005.

Snyder, H. Gray rage: A researcher's dilemma. *Journal of the Center for Families, Children & the Courts*, 2001, 3, 99-105.

Snyder, H. *Sexual Assaults of Young Children as Reported to Law Enforcement: Victim, Incident, and Offender Characteristics*. Washington, DC: U.S. Department of Justice, Bureau of Justice Statistics, 2000.

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### **Areas of Expertise**

Quality Improvement • Six Sigma Methodology • Practical Experimental Design • Basic Statistics for the Average Citizen

### **Brief Biography**

Dr. Spagon is responsible for driving the development of One Technologies' statistical and analytical tools. His experience in Six Sigma and applied statistical methods provides OT with ongoing business process improvement leadership and statistical process control. Prior to OT, Pat was a master consultant with Six Sigma Academy where he trained and coached master black belts, black belts and green belts and was a company-wide resource for statistical methods. At Motorola, Pat was Six Sigma Practice Leader and Senior Consultant on statistical methods.

### **Education**

Ph.D. (Industrial Engineering), Stanford University, 1981  
M.S. (Electrical Engineering), UC Berkeley, 1969  
B.S. (Electrical Engineering), University of Arizona, 1968

### **Selected publications**

2003 – Appendix A: Basic Six Sigma Concepts, pp. 487 – 495 in Six Sigma Leadship Handbook, Rath and Strong.

2000 -- Capability Indices for Non-Normal Data, *Quality Engineering*, Vol. 12, No. 4, June 2000, pp. 489-495

1997 -- Statistical Case Studies for Industrial Process Improvement, Coeditor with Veronica Czitrom, Lucent Technologies, First book in ASA-SIAM Series on Statistics and Applied Probability.

1997 -- "Bit Error Rates from Sample Testing Surface Areas of Optical Media," with Dr. George Runger, Department of Industrial Engineering, Arizona State University, appeared in *Quality Engineering*, Volume 9, No. 3, pp. 363 - 366.

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### Areas of Expertise

Mathematical modeling and estimation • Optimization • Control theory • Mathematical algorithms •  
Part-time graduate education in mathematics

### Brief Biography

James C. Spall is a member of the Principal Professional Staff at the Johns Hopkins University (JHU), Applied Physics Laboratory (Laurel, MD) and a Research Professor in the JHU Department of Applied Mathematics and Statistics (Baltimore, MD). He is also Chair of the Applied and Computational Mathematics Program within the JHU Engineering and Applied Science Programs for Professionals. He has developed statistical and control methodology for use in analyzing large-scale defense and transportation systems. He has performed research in the areas of dynamic systems, mathematical model building and parameter estimation, system optimization, Kalman filtering, neural networks, and general Bayesian analysis. Dr. Spall has published many articles in the areas of statistics and control and holds two U.S. patents (both licensed) for inventions in control systems. He is the editor and coauthor for the book *Bayesian Analysis of Time Series and Dynamic Models* (Marcel Dekker [now CRC Press], 1988) and is the author of *Introduction to Stochastic Search and Optimization* (Wiley, 2003). He is an Associate Editor at Large for the *IEEE Transactions on Automatic Control* and a Contributing Editor for the *Current Index to Statistics*. Dr. Spall has received numerous research and publications awards and is a Fellow of IEEE.

### Education

Ph.D. (Systems Engineering) University of Virginia, 1983.

S.M. (Technology and Policy Program - specialization and thesis in transportation systems),  
Massachusetts Institute of Technology, 1981.

B.S. (Systems Engineering), Oakland University, 1979 (top graduate in School of Engineering).

### Selected publications

 (more complete list at [www.ams.jhu.edu/~spall/Personal/index.htm](http://www.ams.jhu.edu/~spall/Personal/index.htm))

Spall, J. C. (2003), *Introduction to Stochastic Search and Optimization: Estimation, Simulation, and Control*, Wiley, Hoboken, NJ.

Spall, J. C. (editor and coauthor) (1988), *Bayesian Analysis of Time Series and Dynamic Models*, Marcel Dekker, New York.

Spall, J. C. (2005), "Monte Carlo Computation of the Fisher Information Matrix in Nonstandard Settings," *Journal of Computational and Graphical Statistics* (American Statistical Assoc.), vol. 14, pp. 889–909.

Spall, J. C. (2003), "Estimation via Markov Chain Monte Carlo," *IEEE Control Systems Magazine*, vol. 23(2), pp. 34–45.

Spall, J. C. and Maryak, J. L. (1992), "A Feasible Bayesian Estimator of Quantiles for Projectile Accuracy from Non-i.i.d. Data," *Journal of the American Statistical Association*, vol. 87, pp. 676-681.

## **Terence P. Speed**

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### **Areas of Expertise**

Genetics • Bioinformatics • Computational Biology

### **Brief Biography**

Terry Speed splits his time between the Department of Statistics at the University of California, Berkeley and the Walter & Eliza Hall Institute of Medical Research (WEHI) in Melbourne, Australia. Originally trained in mathematics and statistics, he has had a life-long interest in genetics. After teaching mathematics and statistics in universities in Australia and the United Kingdom, and a spell in Australia's Commonwealth Scientific and Industrial Research Organization, he went to Berkeley 20 years ago. Since that time, his research and teaching interests have concerned the application of statistics to genetics and molecular biology. Within that subfield, eventually to be named bioinformatics, his interests are broad, including biomolecular sequence analysis, the mapping of genes in experimental animals and humans, and functional genomics. He has been particularly involved in the low level analysis of microarray data. Ten years ago he took the WEHI job, and now spends half of his time there, half in Berkeley, and the remaining half in the air somewhere in between.

### **Education**

Dip. Ed., Ph.D., Monash

B.Sc. (Honors) Melbourne

### **Selected Publications**

Yang Y H, Dudoit S, Luu P, Lin DM, Peng V, Ngai J and TP SPEED (2002) Normalization for cDNA microarray data: a composite method addressing local, global and multiple slide systematic variation. *Nucleic Acids Research*. Feb 15;30(4):e15.

Irizarry RA, Hobbs B, Collin F, Beazer-Barclay YD, Antonellis KJ, Scherf U, and TP SPEED (2003) Exploration, normalization and summaries of high density oligonucleotide array probe level data. *Biostatistics*. Apr 4(2):249-264

Bourgon R, Delorenzi M, Sargeant T, Hodder AN, Crabb BS and SPEED TP (2004) The serine repeat antigen (SERA) gene family phylogeny in Plasmodium: the impact of GC content, and reconciliation of gene and species trees. *Molecular Biology and Evolution*. Nov 21(11):2161-2171.

Armstrong NJ, McPeck MS and TP SPEED (2006) Incorporating interference into linkage analysis for experimental crosses. *Biostatistics*. 7(3):374-386.

Wormald S, Hilton DJ, Smyth GK and TP SPEED (2006) Proximal genomic localization of STAT1 binding and regulated transcriptional activity. *BMC Genomics*, Oct;7:254.

## Hal Stern

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### Areas of Expertise

Bayesian statistical methods • Sports

### Brief Biography

Hal Stern is Professor and Founding Chair of the Department of Statistics at the University of California, Irvine (UCI). His research interests include: assessing the fit of statistical models, combining information using Bayesian methods, applications of statistics in the social and biological sciences, and statistics in sports. He is a Fellow of the American Statistical Association. Dr. Stern received a B.S. (1981) degree in mathematics from the Massachusetts Institute of Technology and an M.S. (1985) and a Ph.D. (1987) degree in statistics from Stanford University. Prior to his appointment at UCI, he was Professor of Statistics and Laurence H. Baker Chair in Biological Statistics at the Department of Statistics, Iowa State University. He also served as Interim Director of the interdisciplinary Laurence H. Baker Center for Bioinformatics and Biological Statistics at Iowa State University from 2000-2002. He was on the faculty at Iowa State from 1994-2002 and prior to that served on the faculty at Harvard University.

### Education

Ph.D. (Statistics), Stanford University, 1987  
M.S. (Statistics), Stanford University, 1985  
B.S. (Mathematics), MIT, 1981

### Selected publications

Gelman, A., Carlin, J. B., Stern, H. S., and Rubin, D. B., (2003), *Bayesian Data Analysis*, 2nd edition, Chapman and Hall/CRC: Boca Raton. (Book)

Stern, H. S. (2004), "Statistics and the College Football Championship," *The American Statistician*, Vol. 58, pp. 179-185, 194-195 (with discussion).

Zhang, H, and Stern, H. S. (2006), "Assessment of Ancestry Probabilities in the Presence of Genotyping Errors," *Theoretical and Applied Genetics*, Vol. 112, No. 3, pp. 472-482.

Gelman, A. and Stern, H. S. (2006), "The Difference Between "Significant" and "Not Significant" is not Itself Statistically Significant," *The American Statistician*, Vol. 60, No. 4, pp. 328-331

Friedman, L., Stern, H., Brown, G. G., Mathalon, D., Turner, J., Glover, G. H., Gollub, R. L., Lauriello, J., Lim, K.O., Cannon, T., Greve, D. N., Bockholt, H. J., Belger, A., Mueller, B., Doty, M. H., He, J., Wells, W., Smyth, P., Pieper, S., Kim, S., Kubicki, M., Vangel, M., and Potkin, S. G. (2007), "Test-Retest and Between-Site Reliability in a Multicenter fMRI Study," to appear in *Human Brain Mapping*.

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### **Areas of Expertise**

Environmental statistics, especially monitoring and assessing condition of environmental resources (water, air, fish, forests, etc.) at large scales (statewide or nationwide).

### **Brief Biography**

Don Stevens grew up in the Pacific Northwest and California. After earning a PhD in Statistics, he worked for Battelle Pacific Northwest Laboratories for 10 years. There he worked on issues related to nuclear reactor safety, and quantifying the risk of chronic exposure to low-levels of toxicants and carcinogens. After leaving Battelle, he joined the faculty at Eastern Oregon State University, where he was Area Coordinator for Mathematics and Computer Science. He began working with the USEPA as a cooperating researcher on environmental sampling during the National Acid Precipitation Assessment Program (1985-1990) and then spent over a decade engaged in developing the statistical sampling theory supporting the USEPA's Environmental Monitoring and Assessment Program's spatially balanced probability sampling. In 2001 he moved to Oregon State University, where he directed the Program on Designs and Models for Aquatic Resource Surveys. He is currently a Senior Research Associate Professor at OSU. He teaches an occasional class, supervises graduate students, researches spatial sampling design, and consults on monitoring design issues with multiple states, federal agencies, and the Confederated Tribes of the Warm Springs Reservation.

### **Education**

Ph.D., Statistics, Oregon State University, Corvallis, Oregon

M.S., Mathematics, University of Dayton, Dayton, Ohio

B.S., Mathematics, Antioch College, Yellow Springs, Ohio

### **Selected publications**

Stevens, Jr., D.L., and S.F. Jensen. 2007. Sample Design, Execution, and Analysis for Wetland Assessment. *Wetlands*, Vol. **27**:522–530

Stevens, Jr., D.L., and A. R. Olsen. 2004. Spatially-Balanced Sampling of Natural Resources. *Journal of the American Statistical Association* **99**:262-277

Stevens, Jr. D.L., and N.S. Urquhart. 2000. Response Designs and Support Regions in Sampling Continuous Domains. *Environmetrics* **11**:13-42.

Stevens, Jr., D. L. and A. R. Olsen. 1999. Spatially Restricted Surveys over Time for Aquatic Resources. *Journal of Agricultural, Biological, and Environmental Statistics* **4**:415-428.

Stevens, Jr., D.L. 1994. Implementation of a National Environmental Monitoring Program. *Journal of Environmental Management* **42**: 1-29.

## **David A. Swanson**

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### **Areas of Expertise**

Applied Demography • Population Estimation and Forecasting • Decennial Census and the American Community Survey • Population Impacts of Disasters

### **Brief Biography**

David A. Swanson has over 30 years of experience in applied demography. He is a member of the U. S. Census Bureau's Advisory Committee for Professional Associations and served as the Dean of the Mikkeli Campus of the Helsinki School of Economics from 1999 to 2003. From 2003 to 2007 he was chair of the Department of Sociology and Anthropology at the University of Mississippi. He also has served as: the Program Organizer for the 2007 Applied Demography Conference; Publications Officer (2001-2) for the Government Statistics Section, American Statistical Association; Chair of the Applied Demography Committee of the Population Association of America (2000-1); Secretary-Treasurer of the Southern Demographic Association (1995-7 and 2003-7); and the editor of *Population Research and Policy Review* (2004-7). He has authored or co-authored over 60 refereed journal articles, mainly dealing with demography, especially methods for doing small area estimation and forecasting. He has provided oral and written testimony before the oversight hearing of the House Government Reform Subcommittee on Federalism and the Census, Washington, DC. September 6, 2006 and the Nuclear Regulatory Commission's Advisory Committee on Nuclear Waste, September 25, 1997, Las Vegas, Nevada. He was the Principal Investigator on the study, "Perceptions of Disaster Relief and Recovery: Analyzing the Importance of Social and Kinship Networks among Hurricane Katrina Refugees on the Mississippi Gulf Coast," which was funded by the National Science Foundation.

### **Education**

Ph.D. (Sociology/Population Studies) University of Hawai'i, 1985

M.A. (Sociology/Population Studies) University of Hawai'i, 1976

Graduate Diploma (Social Sciences) University of Stockholm, 1974

B.Sc. (Sociology, minor in mathematics) Western Washington State College, 1972

### **Selected Publications**

*Applied Demography in the 21<sup>st</sup> Century*, Co-Editor with Steve H. Murdock (2008)

*The Methods and Materials of Demography 2nd Edition*, Co-Editor with Jay Siegel (2004)

*State and Local Population Projections: Methodology and Analysis*, Co-Author with Stan Smith and Jeff Tayman, (2001)

"Assessing Katrina's Demographic and Social Impacts on the Mississippi Gulf Coast." *Journal of the Mississippi Academy of Sciences* 54 (2): 228-242 (2007), with Rich Forgette, Mark Van Boening, Cliff Holley, and Ann Marie Kinnell.

"Providing Census Tabulations to Government Security Agencies in the United States: The Case of Arab-Americans." *Government Information Quarterly* 24(2): 470-48 (2007), with Samia El-Badry.

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### **Areas of Expertise**

Bayesian statistics • Biostatistics • Cancer treatment • Clinical trials • Dynamic treatment regimes

### **Brief Biography**

Peter F. Thall is the Anise J. Sorrell Professor in the Department of Biostatistics at M.D. Anderson Cancer Center. He is an author of over 140 papers and book chapters in the statistical and medical literature. During the past 18 years, he has designed over 300 clinical trials in numerous areas of oncology, including leukemia, sarcomas, stem cell transplantation, prostate cancer, kidney cancer, and brain tumors, as well as trials for rapid treatment of stroke. His research areas include Bayesian statistics, clinical trial design and dynamic treatment regimes. He has presented over 110 invited talks at national and international conferences, academic institutions and federal agencies, and given 16 short courses on statistical methods for clinical trial design and analysis. He has served as an associate editor (AE) of *Journal of the National Cancer Institute* and *Statistics in Medicine*, and currently is an AE of *Biometrics* and *Clinical Trials*.

### **Education**

Ph.D. (Statistics) Florida State University, 1975  
M.S. (Statistics) Florida State University, 1973  
B.S. (Mathematics) Michigan State University, 1967

### **Selected publications**

Thall PF, Simon R. Practical Bayesian guidelines for phase IIB clinical trials. *Biometrics* 50: 337-349, 1994.

Thall PF, Millikan R, Sung, H-G. Evaluating multiple treatment courses in clinical trials. *Stat in Medicine*, 19: 1011-1028, 2000.

Thall PF, Sung H-G, Estey EH. Selecting therapeutic strategies based on efficacy and death in multi-course clinical trials. *J American Statistical Assoc*, 97:29-39, 2002.

Thall PF, Cook JD. Dose-finding based on efficacy-toxicity trade-offs. *Biometrics*, 60:684-693, 2004.

Thall PF, Wooten LH, Shpall EJ. A geometric approach to comparing treatments for rapidly fatal diseases. *Biometrics*, 62:193-201, 2006.

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**Areas of Expertise**

Disability (can refer to correct person) • Income Measurement • Poverty

**Brief Biography**

Dr Turek received her doctorate in economics from Yale University in 1969. She has been employed in the Office of the Assistant Secretary for Planning and Evaluation (ASPE), Department of Health and Human Services (HHS) since 1972 and in her current position as Senior Economist in the Office of Science and Data Policy since the winter of 2004. She managed ASPE's technical support operation for over 25 years. Dr. Turek was a recipient of the Secretary's award for Distinguished Service as a member of the team preparing the 2003 HHS accountability report She currently chairs the American Statistical Association's Committee on Statistics and Disability.

**Education**

BA (Economics), University of Connecticut  
MA and Ph.D. (Economics), Yale

## Jessica Utts

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### Areas of Expertise

Biostatistics • Health and medicine • Lotteries • Applications of statistics to parapsychology, epidemiology, complementary and alternative medicine, coincidences and luck • Statistics education

### Brief Biography

Jessica Utts is a Professor of Statistics at the University of California, Davis. She is known internationally for her work in two areas – statistics education and the statistical examination of research in parapsychology, the study of alleged psychic phenomena. An award-winning teacher, she has published three statistics textbooks, with an emphasis on statistical literacy, and developed the online statistics course called CyberStats, serving as editor-in-chief. She participated in the Advanced Placement Statistics Program for 10 years, serving on the Development Committee from 1997 (the first year the exam was given) until 2003, and as Chair of the Committee for the last three years of this service. She is an advocate for the idea that all educated citizens should understand how statistical studies are conducted and interpreted, and writes and speaks frequently on this and related topics. In the area of parapsychology, she has published both critical and favorable reviews of research. In 1995 she was one of two experts who reviewed the previously classified US government research on “remote viewing” for the U.S. Congress; this review led to numerous media appearances including Larry King Live, CNN Morning News and ABC Nightline. Professor Utts is a Fellow of the American Statistical Association, the American Association for the Advancement of Science, the Institute of Mathematical Statistics and the Association for Psychological Science.

### Education

Ph.D. (Statistics) Pennsylvania State University, 1978

MA (Statistics) Pennsylvania State University, 1975

BA (Math, Psychology) State University of New York at Binghamton, 1973

### Selected publications

Utts, J. M. (1991) Replication and meta-analysis in parapsychology (with discussion). *Statistical Science*, 6(4), 363-403.

Utts, J.M. (2003). "What educated citizens should know about statistics and probability," *The American Statistician*, 57(2), 74-79.

Schmidt, S., R. Schneider, J. Utts and H. Walach (2004). "Distant intentionality and the feeling of being stared at - two meta-analyses," *British Journal of Psychology*, 95, 235-247.

Utts, Jessica (2005), *Seeing Through Statistics*, 3<sup>rd</sup> Edition, Belmont, CA: Brooks-Cole/ Duxbury Press.

## Lance Waller

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## Areas of Expertise

Disease clusters • Spatial Statistics • Environmental Health • Disease Ecology • Epidemiology

## Brief Biography

Lance A. Waller is professor in the Department of Biostatistics, Rollins School of Public Health, Emory University. His academic interests revolve around applications of spatial statistics and involve the assessments of environmental justice, environmental health, the spatial clustering of disease cases, the spatial distribution of nerve fibers in the skin, the geographic spread of raccoon rabies, ecological models for alcohol epidemiology, and nesting patterns of endangered sea turtles along the coast of Florida. He has published in a variety of biostatistical and statistical journals on issues relating to spatial modeling and inference and is co-author with Carol Gotway of the text *Applied Spatial Statistics for Public Health Data* (2004, John Wiley and Sons). Professor Waller is a Fellow of the American Statistical Association and the 2004 recipient of the Abdel El-Shaarawi Young Researcher's Award from the International Environmetrics Society.

## Education

Ph.D. (Operations Research) Cornell University, 1991  
B.S. (Mathematics) New Mexico State University, 1986

## Selected publications

Waller, L.A. and Gotway, C.A. (2004) *Applied Spatial Analysis of Public Health Data*. New York: John Wiley and Sons.

Waller, L.A., Goodwin, B.J., Wilson, M.L., Ostfeld, R.S., Marshall, S.L., and Hayes, E.B. (2007) Spatio-temporal patterns in county-level incidence and reporting of Lyme disease in the northeastern United States, 1900-2000. *Environmental and Ecological Statistics* 14, 83-100.

Waller, L.A., Hill, E.G., and Rudd, R.A. (2006). The geography of power: statistical performance of tests of clusters and clustering in heterogeneous populations. *Statistics in Medicine* 25, 853-865.

Real, L.A., Henderson, J.C., Biek, R., Snaman, J., Lambert Jack, T., Childs, J.E., Stahl, E., Waller, L., Tinline, R., and Nadin-Davis, S. (2005) Unifying the spatial population dynamics and molecular evolution of epidemic rabies virus. *Proceedings of the National Academies of Science* 102, 12107-12111.

Smith, D., Lucey, B., Waller, L.A., Childs, J.E., and Real, L.A. (2002) Predicting the spatial dynamics of rabies epidemics on heterogeneous landscapes. *Proceedings of the National Academy of Sciences* 99, 3668-3672.

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### **Areas of Expertise**

Time series analysis and forecasting • Applications of statistics in business and economics • Statistics education.

### **Brief Biography**

Dr. Wei is has been on the Temple University faculty since 1974. From 1982-87, he was the Chair of the Department of Statistics at Temple University. He has developed new methodology in seasonal adjustment, aggregation and disaggregation, outlier detection, robust estimation, and vector time series analysis. Some of his most significant contributions include extensive research on the effects of using aggregate data and methods of measuring information loss due to aggregation. He is a Fellow of the ASA, a Fellow of the RSS, an Elected Member of the ISI, and the 2002 President of ICSA. He is an Associate Editor of the *Journal of Forecasting* and the *Journal of Applied Statistical Science*.

### **Education**

Ph.D. (Statistics), University of Wisconsin-Madison, 1974  
M.S. (Statistics), University of Wisconsin-Madison, 1972  
B.A. (Mathematics), University of Oregon, 1969  
B.A. (Economics), National Taiwan University, 1966

### **Selected publications**

“Effect of Temporal Aggregation on Dynamic Relationships of Two Time Series Variables” (with G.C. Tiao), 1976, *Biometrika*, 63, No. 3, pp. 513-523.

“The Effect of Systematic Sampling and Temporal Aggregation on Causality - A Cautionary Note,” 1982, *Journal of the American Statistical Association*, 77, No. 378, pp. 316-319.

“Seasonal Adjustment of Time Series Using One-Sided Filters” (with L. Cupingood), 1986, *Journal of Business and Economic Statistics*, 4, No. 4, pp. 473-484.

“Disaggregation of Time Series Models” (with D. Stram), 1990, *Journal of the Royal Statistical Society B*, 52, No. 3, pp.453-467.

*Time Series Analysis-Univariate & Multivariate Methods*, Second Edition, 2006, Pearson Addison-Wesley, Reading, Massachusetts

**Bruce S. Weir**  
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**Areas of Expertise**

Statistical Genetics (including forensic applications)

**Brief Biography**

Bruce Weir received undergraduate training in New Zealand and then graduate training in statistics and genetics at North Carolina State University. He was a faculty member in the Department of Statistics at NC State from 1976 through 2005. While there he established the annual Summer Institute in Statistical Genetics (now in its 13th year) and he was founding Director of the Bioinformatics Research Center. Since 2006 he has been Professor and Chair in the Department of Biostatistics at the University of Washington. He directs the Coordinating Center for Whole Genome Association Studies within the NIH Genes and Environment Initiative.

**Education**

Postdoc (Genetics), UC Davis, 1969  
Ph.D. (Statistics), NC State University, 1968

**Selected publications**

Weir, B.S. 2007. The rarity of DNA profiles. *Annals of Applied Statistics* (in press)

Weir, B.S., A.D. Anderson and A.B. Hepler. 2006. Genetic relatedness analysis: modern data and new challenges. *Nature Reviews Genetics* 7:771--780.

Weir, B.S., L.R. Cardon, A.D. Anderson, D.M. Nielsen and W.G. Hill. 2005. Measures of human population structure show heterogeneity among genomic regions. *Genome Research* 15:1468-1476.

Evett, I.W. and B.S. Weir. 1998. *Interpreting DNA Evidence*. Sinauer, Sunderland, MA.

Weir, B.S. 1996. *Genetic Data Analysis II*. Sinauer, Sunderland MA

## **Martin Wells**

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## **Areas of Expertise**

Crime • Census • Health and Medicine • Medical product safety • Law • Social science applications of statistical methods

## **Brief Biography**

Martin T. Wells, Ph.D., joined the Cornell faculty in 1987 and is the Charles A. Alexander Professor of Statistical Sciences, Professor and Chair of both the Department of Biological Statistics and Computational Biology and the Department of Statistical Sciences at Cornell University. He is also a Professor of Social Statistics, Professor of Clinical Epidemiology and Health Services Research at Weill Medical School, an Elected Member of the Cornell Law School Faculty, as well as the Director of Research in the School of Industrial and Labor Relations. He teaches statistical methodology to undergraduate and graduate students in fields such as agriculture, biology, epidemiology, finance, law, medicine, nutrition, social science, and veterinary medicine as well as graduate courses in statistics. He has served on high-level national statistical committees, and has published many articles in leading statistical journals. His empirical legal studies have appeared in leading legal publications, and cover civil rights, finance, punitive damages, judge and jury trials, and the death penalty. He is also the Editor in Chief of ASA-SIAM Series on Statistics and Applied Probability, Co-Editor of The Journal of Empirical Legal Studies, and served as the Editor of The Journal of the American Statistical Association-Reviews. He is a Fellow of the American Statistical Association and the Royal Statistical Society.

## **Education**

Ph.D. (Mathematics) University of California, 1987

M.A. (Mathematics, Statistics) University of California, 1984

B.A. (Mathematics, Psychology) California State University, 1983

## **Selected publications**

Statistics in the 21st Century, (with A. Raftery and M. Tanner), Chapman and Hall: New York, 2001.

Explaining Death Rows Size and Racial Composition,"(with J. Blume and T. Eisenberg), Journal of Empirical Legal Studies 1, 265-207, 2004.

Hierarchical Graphical Models: An Application to Pulmonary Function and Cholesterol Levels in the Normative Aging Study, (with D. Zhang, B. W. Turnbull, P. A. Cassano), Journal of the American Statistical Association 100, 719-727, 2005.

Bayesian Inference for a Two-Part Hierarchical Model: An Application to Profiling Providers in Managed Health Care, (with M. Zhang, R. L. Strawderman, M. E. Cowen). Journal of the American Statistical Association 101, 934-945, 2006.

Juries, Judges, and Punitive Damages: Empirical Analyses Using the Civil Justice Survey of State Courts 1992, 1996, and 2001 Data (with T. Eisenberg, P. L. Hannaford-Agor, M. Heise, N. LaFountain, G. Munsterman, B. Ostrom). Journal of Empirical Legal Studies 3, 263295, 2006.

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### **Areas of Expertise**

Statistics Education • Decision Theory

### **Brief Biography**

Oberlin College faculty member since 1986; Acting Dean of Arts and Sciences 2004-5, 2006-8; Fellow of ASA

### **Education**

PhD (Statistics), University of Minnesota, 1983  
B.S. (Mathematics - With Honors), University of Wisconsin-La Crosse, 1979

### **Selected publications**

*Statistics for the Life Sciences, 3rd ed.* (with M. Samuels) (2003) Upper Saddle River, NJ: Prentice Hall 736 Pp.

*Activity-Based Statistics, Instructor Resources, 2nd ed.* (with R.L. Scheaffer, M. Gnanadesikan, A. Watkins, and T. Erickson) (2004) Emeryville, CA: Key College Publishing 388 Pp.

Statistics within Departments of Mathematics at Liberal Arts Colleges (with T.L. Moore). *Amer. Math. Monthly*, **98** (5) 431-436 (1991).

Bayesian Multistage Decision Problems. *Annals of Statist.*, **14** (1) 283-297 (1986).

Intercessory Prayer As Medical Treatment? An Inquiry (with M. Zimmerman). *Skeptical Inquirer*, **15** (2) 177-180 (1991).

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### **Areas of Expertise**

Lotteries • Transportation • Census • Law

### **Brief Biography**

The early part of Dr. Ylvisaker's career was spent in research and teaching, with stints at Columbia, NYU, the University of Washington, and UCLA. His interests have migrated to more applied matters over the past 30 years, including major involvements with two state lotteries, the Census Bureau, a variety of law firms, transportation companies, and other businesses. He has been the Consulting Editor of *Statistica Sinica* for the past 10 years, has served on other editorial boards, and on a number of professional society committees. Dr. Ylvisaker is a Fellow of the American Statistical Association and of the Institute of Mathematical Statistics.

### **Education**

Ph.D. (Statistics), Stanford, 1960.  
M.A. (Mathematics), University of Nebraska, 1956  
B.A. (Mathematics & Economics), Concordia College, 1954

### **Selected publications**

"Counting the homeless in Los Angeles County" (with Berk and Kreigler), to appear in the David Freedman Festschrift.

"Statistical controversies in Census 2000" (with Brown, Eaton, Freedman, Klein, Olshen, Wachter and Wells), *Jurimetrics*, 1999

"Lotto play: the good, the fair and the truly awful" (with D. Kadell), *Chance*, 1991

"A Bayesian approach to the design and analysis of computational experiments" (with C. Currin, T. J. Mitchell and M. Morris), *JASA*, 1991

"Quantifying prior opinion" (with Persi Diaconis), Proc. 2nd Valencia Meeting on Bayesian Statistics, 1985