

May 11, 2019

Roderick Joseph Alexander Little

Roderick J Little

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EDUCATION

- 1974 Ph.D. in Statistics, Imperial College of Science and Technology, London University, London, England. *Advisors:* Professor Martin Beale and Professor David R. Cox. *Thesis:* "Missing Values in Multivariate Statistical Analysis"
- 1972 M.Sc. in Statistics and Operational Research, Imperial College of Science and Technology, London University, England
- 1971 B.A. with Honors in Mathematics, Cambridge University
- 1957-67 Secondary School, Glasgow Academy, Glasgow, Scotland

CURRENT EMPLOYMENT

- 2013- Richard D. Remington Distinguished University Professor of Biostatistics, University of Michigan
- 2013- Research Professor, Joint Program for Survey Methodology, University of Maryland
- 1993- Professor, Department of Biostatistics, University of Michigan School of Public Health, 1415 Washington Heights, Ann Arbor, MI 48109-2029.
- 1993- Professor, Department of Statistics, University of Michigan.
- 1993- Research Professor, Institute for Social Research, University of Michigan.

EMPLOYMENT HISTORY

- 2010-12 Associate Director for Research & Methodology and Chief Scientist, U.S. Bureau of the Census, Suitland MD. (Inter-Personnel Agreement with University of Michigan)
- 1993- Chair, Department of Biostatistics, University of Michigan (1993-2002, 2007-2009).

- 1983-93 Associate Professor (1983-87) and Professor (1987-93), Department of Biomathematics, School of Medicine, University of California at Los Angeles. (Acting Department Chair 90-91).
- 1982-83 ASA / Census / NSF Research Fellow, Statistical Research Division, U.S. Bureau of the Census, Washington DC.
- 1981-82 Adjunct Associate Professor, Department of Statistics, George Washington University.
- 1980-82 Expert Consultant, Office of Radiation Programs, U.S. Environmental Agency, Washington DC.
- 1976-80 Scientific Associate, World Fertility Survey, International Statistical Institute, London UK.
- 1974-76 Research Associate (Assistant Professor), Department of Statistics, University of Chicago.
- 1972-74 Teaching Assistant, Royal Holloway College, University of London and Department of Mathematics, University of Essex, UK.

HONORS / AWARDS

- 2017 Statistician of the Year, Chicago Chapter, American Statistical Association.ⁱ
- 2017 International Statistical Institute Pearson Prize (awarded for 1987 book “Statistical Analysis with Missing Data”) (with Don Rubin).
- 2016 Inaugural Rod Little Distinguished Lecture, Department of Biostatistics, University of Michigan, delivered by Joel Greenhouse
- 2016 Founders’ Award, American Statistical Association
- 2013 Distinguished University Professor, University of Michigan
- 2013-17 Senior Fellow, Michigan Society of Fellows.
- 2012 Committee of Presidents of Statistical Societies Fisher Lectureship Award, Joint Statistical Meetings
- 2012 Washington Academy of Sciences Award for work of merit and distinction in the Mathematical and Computer Sciences
- 2011 Elected Member, Institute of Medicine of the National Academies 2011-2015, National Academy of Medicine 2015-present.
- 2011 American Association for Public Opinion Research Book Award, for *Survey Nonresponse*, Groves, R., Dillman, D., Eltinge, J. & Little, R. (2002, eds.).
- 2010 Elected Fellow, American Academy of Arts and Sciences

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- 2010- Highly Cited Researcher, Institute for Scientific Information
- 2005 President's Invited Address, Joint Statistical Meetings
- 2005 Wilks' Memorial Award, American Statistical Association
- 2004 National Associate, National Academy of the Sciences
- 2003 Research Excellence Award, School of Public Health, University of Michigan
- 2002 Collegiate Professor, University of Michigan
- 1989 Elected Member, International Statistical Institute
- 1985 Elected Fellow, American Statistical Association
- 1968 Exhibition Scholarship to Gonville and Caius College, Cambridge University

KEYNOTE PRESENTATIONS / SPECIAL LECTURES

- 2018 "On Statistics, Study Design and Data Science: the Prediction and Modeling Cultures." *Fifth Bayesian, Fiducial and Frequentist Conference*, Ann Arbor MI, May 2019
- 2018 "On Statistics, Study Design and Data Science: the Prediction and Modeling Cultures." President's Invited Address, ENAR Meeting, Atlanta GA, March 2018.
- 2017 "Statistical Analysis with Missing Data: Past, Present and Future." Pearson Prize lecture, World Statistical Congress, Marrakesh, Morocco, July 2017.
- 2017 "Missing data in clinical trials." Keynote lecture, 1st International Symposium on Biostatistics and Drug Development, China Pharmaceutical University, Nanjing China, July 2017
- 2017 "Some recent developments in statistical analysis with missing data." Keynote Lecture, International Chinese Statistical Association Statistics Symposium, Chicago IL, July 2017
- 2016 "Some recent developments in the analysis of data with missing values." Lowell Reid Lecture, American Public Health Association Meetings, Denver, CO, December 2016.
- 2016 "Some recent developments in the analysis of data with missing values." Keynote Lecture, International Meeting of Psychometric Society, Asheville, NC
- 2016 "Treatment discontinuation and missing data in clinical trials." Oderoff Lecture, University of Rochester Medical Center
- 2015 Keynote Speaker, New Techniques and Technologies for Statistics Conference, European Commission Eurostat, Brussels, Belgium
- 2014 Keynote Speaker, 2nd Annual New Jersey American Statistical Association Chapter/Bayer Pharmaceutical Statistics workshop
- 2014 Keynote Speaker, Korean Statistical Society Conference, Seoul, S. Korea

- 2014 Keynote Speaker, Donald Rubin 70th Birthday Symposium, Harvard University
- 2014 Leonard M. Schumann lecture, Epidemiology Summer Session, School of Public Health, University of Michigan
- 2013 Clifford C. Clogg Memorial Lecturer, Pennsylvania State University
- 2013 Keynote lecture, Joint Conference of the 5th Annual International Symposium on the Evaluation of Clinical Trials, and the Fourth East Asia Regional Biometric Conference, Beijing, China.
- 2013 Donna J. Brogan Lecturer, Department of Biostatistics and Bioinformatics, Emory University
- 2012 Foreman Lecture, Australian Statistics Meetings, Adelaide, Australia
- 2012 Keynote Lecture, Southern Regional Council on Statistics Summer Research Conference, June 2012
- 2012 Keynote Lecture, Indiana Statistics Day, University of Notre Dame, May 2012
- 2011 Greenberg Distinguished Lecturer, Department of Biostatistics, University of North Carolina
- 2011 Hansen Memorial Lecture, Washington Statistical Society (with Robert M. Groves)
- 2011 Cochran Keynote Lecture, Atlantic Causal Conference, Ann Arbor, MI, May 2011

GRANTS and FELLOWSHIPS (Selected)

- 1982-83 American Statistical Association / U.S. Census Bureau / National Science Foundation Research Fellowship.
- 1985-88 Principal Investigator, NSF Grant "Improving Survey Accuracy: Estimation from Panel Surveys Susceptible to Nonresponse".
- 1986-89 Co-Principal Investigator, NIMH Grant 2 R01 MH37188-04A1 "Statistical Software for Mental Health Research".
- 1990-93 Principal Investigator, NIMH Grant 2 R01 MH37188-07A1 "Statistical Methodology for Mental Health Research".
- 1994-95 Director, Biostatistics Core, NIA 3 P50 AG08671NIH 2 P30 CA46592-04 "University of Michigan Comprehensive Cancer Center".
- 1994-96 Principal Investigator, NSF Grant DMS 9408837 "Missing Data Methods for Non-Random Attrition in Longitudinal Studies".
- 1994-96 Principal Investigator, U.S. Army Medical Research Grant DAMD 17-94-J-4160 "Training Program in Biostatistics for Breast Cancer Research".
- 1994-99 Director, Biostatistics and Data Management Core, NIA 3 P50 AG08671-04S3 "Michigan Alzheimer's Disease Research Center".

- 1997-98 Interim Director, Biostatistics Core, P30 CA46592-04 "University of Michigan Cancer Center".
- 1998-2001 Principal Investigator, NSF Grant DMS 9803720 "Statistical Analysis of Longitudinal Studies and Surveys with Missing Values".
- 1999-2007 Director, Biostatistics and Data Management Core, NIA P50 AG08671 "Michigan Alzheimer's Disease Research Center".
- 2001-04 Principal Investigator, NSF Grant DMS 0106914 "Bayesian Methodology for Disclosure Limitation and Statistical Analysis of Large Government Surveys".
- 2003-08 Director, Biostatistics Core, "Michigan Center for Health Communications Research", Victor Strecher, PI.
- 2005-10 Director, Biostatistics Core, "Michigan Center for Health Intervention", Carolyn Sampsel, PI.
- 2008-13 Director, Biostatistics Core, "Michigan Center for Health Communications Research II", Victor Strecher, PI.
- 2010-13 Director, Biostatistics Core, "Lifestyle Exposures and Adult Disease", Howard Hu, PI.

EDITORIAL and GRANT REVIEWS

- 1973- Referee for many scholarly journals, including *Annals of Statistics*, *Biometrics*, *Biometrika*, *Communications in Statistics*, *International Statistical Review*, *Journal of the American Statistical Association*, *Journal of Official Statistics*, *Journal of the Royal Statistical Society*, *Metrika*, *Psychological Methods*, *Sociological Methodology*, *Statistics in Medicine*, *Technometrics*. Reviewer of research proposals for National Science Foundation and National Institutes of Health.
- 1980-86 Associate Editor, *Applications Section*, *Journal of the American Statistical Association*.
- 1986-91 Editorial Board, *Methodology Forum*, *American Journal of Physiology*.
- 1988-92 Associate Editor, *Theory and Methods Section*, *Journal of the American Statistical Association*.
- 1989-90 Associate Editor, Special Section on Quality Control of Welfare Programs, *Journal of the American Statistical Association*.
- 1989-93 Epidemiology Research Subcommittee, Epidemiologic and Services Research Review Committee, National Institute of Mental Health.
- 1992-94 Coordinating and Applications Editor, *Journal of the American Statistical Association*.
- 1993-2002 Editorial Board, *Kendall's Library of Statistics*, Edward Arnold: London.
- 1995 Clinical Sciences Special Emphasis Panel, Safety and Occupational Health Study Section, National Institutes of Health.

- 1998 ASA/NCHS Program Review Board
- 1999 Expert Review Panel, Myotrophin New Drug Application, Center for Drug Evaluation and Research, Food and Drug Administration.
- 2002-08 Associate Editor, *Theory and Methods Section, Journal of the American Statistical Association.*
- 2006-08 National Alzheimer's Disease Coordinating Center Scientific Review Committee.
- 2007 Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2007/05 BMRD, National Institutes of Health.
- 2008 Guest Editor, Special Section on Limit of Detection Issues, *Epidemiology.*
- 2009- Associate Editor, *Biometrics.*
- 2012- Co-Chair, Advisory Committee, *Journal of Survey Statistics and Methodology.*
- 2012-13 National Science Foundation MMS program, ICSP agency review.
- 2012- Review monitor, National Research Council Division on Earth and Life Studies (DELS) committee report titled "*Emerging Workforce Trends in the U.S. Energy and Mining Industries.*"
- 2013 NIH Tobacco Centers of Regulatory Science: Stage 1 Reviewer
- 2016-18 Co-Editor in Chief, *Journal of Survey Statistics and Methodology*

COMMITTEES, SERVICE and ADMINISTRATION

- 1979-81 Consultant, Panel On Incomplete Data, National Research Council, National Academy of the Sciences.
- 1982 Organizer, Invited Paper Session, Joint Statistical Meetings 1982.
- 1983-84 NHANES II Time Trend Analysis Review Group, U.S. Environmental Protection Agency.
- 1984-86 Committee on Tutorials, Survey Research Methods Section, American Statistical Association.
- 1985 Panel for Science Based Careers, National Research Council, National Academy of the Sciences.
- 1986-88 Committee on the Survey of Income and Program Participation, Social Science Research Council.
- 1986-91 American Statistical Association Working Group on SIPP Methodology.
- 1986-90 American Statistical Association Committee on Energy Statistics.
- 1987-90 Board of Overseers, Panel Study of Income Dynamics
- 1987 Organizer, Special Contributed Paper Session "Handling Missing Data in Surveys", International Statistical Institute Meetings, Tokyo 1987.

- 1987 Advisory Panel on Imputation in the Fatal Accident Reporting System, National Highway Traffic Safety Administration.
- 1987-88 Program Chair, Survey Research Methods Section, American Statistical Association.
- 1989-91 Research Advisory Board, United States Sentencing Commission.
- 1989-91 IASS Program Committee, International Statistical Institute.
- 1989-90 American Statistical Association Advisory Committee for the Ecological Monitoring and Assessment Program , U.S. Environmental Protection Agency.
- 1992-93 Committee on Research on Child Abuse and Neglect, National Research Council, National Academy of the Sciences.
- 1993-94 Editorial Representative, Board of Directors, American Statistical Association.
- 1995-96 Nominations Committee, Survey Research Methods Section, American Statistical Association.
- 1996-98 Committee on the Evaluation of National and State Assessments of Educational Progress, National Research Council, National Academy of the Sciences.
- 1996-98 Constitutional Review Committee, American Statistical Association.
- 1996-2002 Committee on National Statistics, National Research Council, National Academy of the Sciences.
- 1999 Chair, JASA Editorial Search Committee, American Statistical Association.
- 1998-2000 Committee to Review the 2000 Census, National Research Council, National Academy of the Sciences.
- 2000-02 Committee on Assessing the System for Protecting Human Research Subjects, Institute of Medicine, National Academy of the Sciences.
- 2000-02 COPSS President's Award Committee.
- 2000- Mitchell Award Committee, Section on Bayesian Statistics, American Statistical Association (Chair 2002-2003).
- 2000-02 IASS Program Committee, International Statistical Institute.
- 2002-03 External Review Panel of the Statistical Research Division of the U.S. Bureau of the Census.
- 2002-04 Federal Advisory Committee, National Children's Study.
- 2002- Vice-President, Ann Arbor Symphony Orchestra.
- 2003-06 Executive Committee, School of Public Health, University of Michigan
- 2003-06 Regional Committee, Eastern North American Region, Biometrics Society.
- 2004-6 Panel on Coverage Evaluation and Correlation Bias in the 2010 Census, National Research Council, National Academy of the Sciences.
- 2005-8 Committee on Fellows, American Statistical Association. (Chair 2007-8).
- 2006-11 ENAR region member, International Biometrics Society Council.

- 2006-11 Advisory Council, Statistical and Applied Mathematical Sciences Institute.
- 2006 Organizer, Symposium on Design of the National Children's Study, *2nd American Congress of Epidemiology*, Seattle, Washington.
- 2008-10 Chair-Elect, Chair and Past Chair, Survey Research Methods Section, American Statistical Association.
- 2009-10 Chair, Oversight Committee for Handling Missing Data in Clinical Trials, National Academy of Sciences.
- 2010 Executive Committee, School of Public Health, University of Michigan
- 2010-12 Vice-President, American Statistical Association.
- 2012-13 Chair, External Review of the Office of Research and Methodology, National Center for Health Statistics.
- 2013 Chair, External Review Committee, University of Pennsylvania Epidemiology and Biostatistics Graduate Program.
- 2014-2015 Executive Committee, School of Public Health, University of Michigan
- 2014 Scientific Advisory Board, RAND Military Workplace Study
- 2014 External Review Committee, National Cancer Institute Biostatistics Branch
- 2014-15 NCES/NISS Gainful Employment Survey Standards Panel
- 2014- PCORI Heterogeneous Treatment Effect Expert Panel
- 2015- American Statistical Association Samuel S. Wilks Memorial Medal Committee
- 2015 Chair, Committee on Multiple Sclerosis and Other Neurologic Disorders in Veterans of the Persian Gulf and Post 9/11 War, Institute of Medicine
- 2015-2017 National Institute for Statistical Sciences Expert Panel to Review the National Center for Education Statistics
- 2017- Technical Advisory Committee, Synthetic Data Project, Maryland Longitudinal Data System

STATISTICAL CONSULTING ACTIVITIES (SELECTED)

- 1982-2008 Vice-President, Datametrics Research, Inc. (a statistical consulting corporation).
- 1984-92 Member, Advisory Committee, BMDP Software, Inc.
- 1985-93 Chair, Executive Committee, Statistical and Biomathematical Consulting Clinic, Department of Biomathematics, UCLA.
- 2005-present Consultant and/or short course presenter on missing data in clinical trials and surveys for numerous companies, including Amgen, Astrazeneca, Biogen, Bristol Myers Squibb, Daichii, Eli Lilly, Endo, Intarcia, Jansen, Mathematica, Medtronic, Merck, Ortho, Pfizer, Portola, Quintiles, Rand, Sanofi-Aventis, Takeda, Teva, Thomson Reuters, Truven and Westat.

DOCTORAL COMMITTEES CHAIRED*At UCLA:*

- 1987 Mei-Miau Wu "Non-random selection models for contingency tables" (A. Afifi, co-chair).
- 1988 Hong-Lin Su "Estimation of Standard Errors in Some Multivariate Models with Missing Data" (W. Cumberland, co-chair).
- 1993 Carlos Lazaro "Small Sample Inference on Fixed Effects in Mixed Models" (N. Schenker, co-chair).
- 1994 Janet Sinsheimer "Extensions to Evolutionary Parsimony" (J. Lake, co-chair).

At University of Michigan:

- 1994 Chiang-Sun (Edward) Chao "A Comparison of Models Including the Possibility of Cure for Survival Data" (B. Hill, co-chair).
- 1997 Linda Yau "Statistical Analysis of Longitudinal Data with Drop-Outs".
- 1998 Hua-Yun Chen "Statistical Methods for Handling Missing Data in Longitudinal Data Analysis and in Survival Analysis".
- 1999 Jewel Johanns "The Statistical Analysis of Index Variables Containing Missing Data".
- 1999 Michael Elliott "Models and Methods for Three Problems in Sample Survey Statistics"
- 2000 Steven Heeringa "Multivariate Imputation of Coarsened Survey Data on Net Worth" (T. Raghunathan, co-chair).
- 2001 Yahong Peng "Causal inference for data subject to noncompliance and missing values."
- 2001 Gong Tang "Pseudo-Likelihood Selection Models for Nonrandomly Missing Data."
- 2002 Hui Zheng "Penalized Spline Nonparametric Regression Methods for Survey Samples with Potentially Unequal Probabilities of Inclusion."
- 2003 Fang Liu "Bayesian Methods for Statistical Disclosure Control in Microdata".
- 2004 Sonya Vartivarian "On the Formation of Weighting Class Adjustments for Unit Nonresponse in Sample Surveys".
- 2004 Hyonggin An "Robust Likelihood-Based Inference for Multivariate Data with Missing Values".
- 2005 Qi Long "Emerging Issues in Causal Inference in Intervention Trials" (Xihong Lin, co-chair).
- 2005 Ying Yuan "Model-Based Estimates of the Finite Population Mean for Two-Stage Cluster Samples with Nonresponse".
- 2007 Guangyu Zhang "Extensions of the Penalized Spline Propensity Prediction Method of Imputation".

- 2007 Xiaoxi Zhang "Statistical Image Analysis for Quantitative MRI" (Tim Johnson, co-chair).
- 2007 Di An "Multiple Imputation Methods for Statistical Disclosure Control".
- 2009 Yan Zhou "Some Topics in Missing Data and Adaptive Confidence Intervals" (Jack Kalbfleisch, co-chair)
- 2009 Rebecca Andridge "Statistical Methods for Missing Data in Complex Sample Surveys".
- 2009 Qixuan Chen "Robust Bayesian Predictive Inference for Three Topics in Survey Sampling" (Michael Elliott, co-chair).
- 2010 Ying Guo "Multiple Imputation for Measurement Error Correction based on a Calibration Sample".
- 2011 Nanhua Zhang, "Ignorable and Nonignorable Modeling in Regression with Incomplete Covariates".
- 2012 Sahar Zanganeh, "Model-based Methods for Robust Finite Population Inference in the Presence of External Information" (Robert Keener, co-chair).
- 2014 Shan Kang, "Treatment Effect Estimation for Randomized Clinical Trials Subject to Noncompliance and Missing Outcomes" (Tom Braun, co-chair).
- 2015 Ye Yang, "Robust Methods for Estimation of the Mean with Missing Data."
- 2018 Tingting Zhou, "Robust Methods for Causal Inference Using Penalized Splines." (Michael Elliott, co-chair).

In progress: Adam Hall, Micha Fischer.

BIBLIOGRAPHY

{ } = number of Google Scholar citations, if 10 or more.

Total = 55,152, h-index: 75, i10 index: 194

1. Books

- [1] Little, R.J.A. & Rubin, D.B. (2002). *Statistical Analysis with Missing Data* 3rd edition April 2019 (2nd edition 2002, 1st edition 1987), New York: John Wiley {25,334}
- [2] National Research Council (1993). *Understanding Child Abuse and Neglect*. Panel on Research on Child Abuse and Neglect. National Academy Press: Washington DC.
- [3] National Research Council (1998). *Grading the Nation's Report Card: a Review of the National Assessment of Educational Progress*. National Academy Press: Washington DC.
- [4] Institute of Medicine (2001). *Preserving Public Trust: Accreditation and Human Research Participant Protection Programs*. Committee on Assessing the System for Protecting Human Research Subjects. National Academy Press: Washington DC.
- [5] Groves, R., Dillman, D., Eltinge, J. & Little, R. (2002, eds.) *Survey Nonresponse*. John Wiley, New York. {624}

- [6] Institute of Medicine (2002). *Responsible Research: A Systems Approach to Protecting Research Participants*. Committee on Assessing the System for Protecting Human Research Subjects. National Academy Press: Washington DC.
- [7] National Research Council (2008). *Research and Plans for Coverage Measurement in the 2010 Census*. Panel on Coverage Evaluation and Correlation Bias in the 2010 Census. National Academy Press: Washington DC.
- [8] National Research Council (2010). *The Prevention and Treatment of Missing Data in Clinical Trials*. Panel on Handling Missing Data in Clinical Trials (R. Little, Chair). National Academy Press: Washington DC.
- [9] National Research Council (2015). *Considerations for Designing an Epidemiologic Study for Multiple Sclerosis and Other Neurologic Disorders in Pre and Post 9/11 Gulf War Veterans*. National Academy of Medicine Committee on Designing and Epidemiologic Study for Multiple Sclerosis and Other Neurologic Disorders in Veterans of the Persian Gulf and Post 9/11 Wars, (R. Little, Chair). National Academy Press: Washington DC.

2. Peer-reviewed articles, published or in press

(* denotes Little's doctoral student)

2A. Statistical Methodology

- [1] Beale, E.M.L. & Little, R.J.A. (1975). Missing values in multivariate analysis. *Journal of the Royal Statistical Society, Series B*, 37, 129 - 145. {430}
- [2] Little, R.J.A. (1976). Inferences about means from incomplete multivariate data. *Biometrika*, 63, 593-604. DOI: 10.1093/biomet/63.3.593. {69}
- [3] Little, R.J.A. (1978). Consistent regression methods for discriminant analysis with incomplete data. *Journal of the American Statistical Association*, 73, 319-322. DOI: 10.2307/2286659. {29}
- [4] Little, R.J.A. (1979). Maximum likelihood inference for multiple regression with missing values: a simulation study. *Journal of the Royal Statistical Society, Series B*, 41, 76-87. {44}
- [5] Little, R.J.A. & Pullum, T.W. (1979). the general linear model and direct standardization: a comparison. *Sociological Methods and Research*, 7, 475-501. DOI: 10.1177/004912417900700407. {39}
- [6] Little, R.J.A. (1981). Hypothesis tests based on counts of low-level radioactivity from blank and sample sources. *Health Physics*, 42, 230-231.
- [7] Little, R.J.A. (1982). The statistical analysis of low-level radioactivity in the presence of background counts. *Health Physics*, 43, 693-703. DOI: 10.1097/00004032-198211000-00007. {39}
- [8] Little, R.J.A. (1982). Direct standardization: a tool for teaching linear models for unbalanced data. *The American Statistician*, 36, 38-43. DOI: 10.2307/2684091. {63}
- [9] Little, R.J.A. (1982). Models for nonresponse in sample surveys. *Journal of the American Statistical Association*, 77, 237-250. DOI: 10.2307/2287227. {416}

- [10] Little, R.J.A. & Rubin, D.B. (1983). Incomplete data. *Encyclopedia of the Statistical Sciences*, 4, 46-53. {41}
- [11] Little, R.J.A. (1983). Estimating a finite population mean from unequal probability samples. *Journal of the American Statistical Association*, 78, 596-604. DOI: 10.2307/2288125. {61}
- [12] Little, R.J.A. & Rubin, D.B. (1983). On jointly estimating parameters and missing data by maximizing the complete-data likelihood. *The American Statistician*, 37, 218-220. DOI: 10.2307/2683374. {171}
- [13] Hobcraft, J. & Little, R.J.A. (1984). Fertility Exposure Analysis: a new method for assessing the contribution of proximate determinants to fertility differentials. *Population Studies*, 38, 21-46. DOI: 10.2307/2174353. {94}
- [14] Little, R.J.A. (1985). A note about models for selectivity bias. *Econometrica*, 53, 1469-1474. {233}
- [15] Little, R.J.A. & Schluchter, M.D. (1985). Maximum likelihood estimation for mixed continuous and categorical data with missing values. *Biometrika*, 72, 497-512. DOI: 10.1093/biomet/72.3.497. {274}
- [16] David, M., Little, R.J.A., Samuhel, M.E. & Triest, R.K. (1986). Alternative methods for CPS income imputation. *Journal of the American Statistical Association*, 81, 29-41. DOI: 10.2307/2287965. {166}
- [17] Little, R.J.A. (1986). Survey nonresponse adjustments. *International Statistical Review*, 54, 139-157. DOI: 10.2307/1403140. {575}
- [18] Little, R.J.A. & Smith, P.J. (1987). Editing and imputation for quantitative data. *Journal of the American Statistical Association*, 82, 58-69. DOI: 10.2307/2289125. {131}
- [19] Lange, K., Bahn, M. & Little, R.J.A. (1987). A theoretical study of some maximum likelihood algorithms for emission and transmission tomography. *IEEE Transactions in Medical Imaging*, MI-6, 2, 106-114. DOI: 10.1109/TMI.1987.4307810. {388}
- [20] Little, R.J.A. (1988). Robust estimation of the mean and covariance matrix from data with missing values. *Applied Statistics*, 37, 23-38. DOI: 10.2307/2347491. {206}
- [21] Little, R.J.A. (1988). Missing data adjustments in large surveys. *Journal of Business and Economic Statistics*, 6, 287-301 (with discussion). DOI: 10.2307/1391878. {898}
- [22] Little, R.J.A. (1988). Approximately calibrated small sample inference about means from bivariate normal data with missing values. *Computational Statistics and Data Analysis*, 7, 161-178. DOI: 10.1016/0167-9473(88)90090-4. {12}
- [23] Little, R.J.A. (1988). A test of missing completely at random for multivariate data with missing values. *Journal of the American Statistical Association*, 83, 1198-1202. DOI: 10.2307/2290157. {3859}
- [24] Little, R.J.A. (1988). Some statistical issues at the World Fertility Survey. *The American Statistician*, 42, 31-36. DOI: 10.2307/2685258.
- [25] Little, R.J.A. & Rubin, D.B. (1989). The analysis of social science data with missing values. *Sociological Methods and Research*, 18, 292-326; reprinted in *Modern Methods*

- of Data Analysis*, J.S. Long & J.Fox, eds., Sage Press. DOI: 10.1177/0049124189018002004. {1013}
- [26] Little, R.J.A. (1989). On testing the equality of two independent binomial proportions. *The American Statistician*, 43, 283-288. DOI: 10.2307/2685390. {123}
- [27] Lange, K., Little, R.J.A. & Taylor, J.M.G. (1989). Robust statistical modeling using the T distribution. *Journal of the American Statistical Association*, 84, 881-896. DOI: 10.2307/2290063. {1329}
- [28] Heitjan, D.F. & Little, R.J.A. (1991). Multiple imputation for The Fatal Accident Reporting system. *Applied Statistics*, 40, 13-29. DOI: 10.2307/2347902. {210}
- [29] Little, R.J.A. & Wu*, M.M. (1991). Models for contingency tables with known margins when target and sampled populations differ. *Journal of the American Statistical Association*, 86, 87-95. DOI: 10.2307/2289718. {114}
- [30] Little, R.J.A. (1991). Inference with survey weights. *Journal of Official Statistics*, 7, 405-424. {99}
- [31] Czajka, J.L., Hirabayashi, S.M., Little, R.J.A. & Rubin, D.B. (1992). Projecting from advance data using propensity modeling; an application to income and tax statistics. *Journal of Business and Economic Statistics*, 10, 117-132. DOI: 10.2307/1391671. {81}
- [32] Little, R.J.A. (1992). Regression with missing X's: a review. *Journal of the American Statistical Association*, 87, 1227-1237. DOI: 10.2307/2290664. {1229}
- [33] Gornbein, J.G., Lazaro, C. & Little, R.J.A. (1992). Incomplete data in repeated measures analysis. *Statistical Methods in Medical Research*, 1,3, 275-295. DOI: 10.1177/096228029200100304. {46}
- [34] Little, R.J.A. (1993). Pattern-mixture models for multivariate incomplete data. *Journal of the American Statistical Association*, 88, 125-134. DOI: 10.2307/2290705. {974}
- [35] Little, R.J.A. (1993). Post-stratification: a modeler's perspective. *Journal of the American Statistical Association* 88, 1001-1012. DOI: 10.2307/2290705. {237}
- [36] Little, R.J.A. (1993). Statistical analysis of masked data. *Journal of Official Statistics* 9, 407-426. {277}
- [37] Dorey, F.J., Little, R.J.A. & Schenker, N. (1993). Multiple imputation for threshold-crossing data with interval censoring. *Statistics in Medicine* 12, 17, 1589-1603. DOI: 10.1002/sim.4780121706. {77}
- [38] Little, R.J.A. (1994). A class of pattern-mixture models for normal missing data. *Biometrika* 81, 3, 471-483. DOI: 10.1093/biomet/81.3.471. {467}
- [39] Little, R.J.A. & Rubin, D.B. (1994). Test equating from biased samples, with application to the Armed Services Vocational Aptitude Battery. *Journal of Educational and Behavioral Statistics*, 19, 4, 309-336. DOI:10.3102/10769986019004309. {18}
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- [41] Little, R.J.A. (1995). Modeling the drop-out mechanism in longitudinal studies. *Journal of the American Statistical Association*, 90, 1112-1121. DOI: 10.2307/2291350. {1436}
- [42] Koopman, J.S. & Little, R.J.A. (1995). Assessing HIV vaccine effects. *American Journal of Epidemiology*, 142, 10, 1113-1120. {55}
- [43] Little, R.J.A. & Wang, Y-X (1996). Pattern-mixture models for multivariate incomplete data with covariates. *Biometrics*, 52, 98-111. DOI: 10.2307/2533148. {223}
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2B. Applied and Collaborative Research

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- [27] Little, R.J. & Zhang*, G. (2009). Robust likelihood-based analysis of longitudinal data with missing values. Chapter 18 in *Methodology of Longitudinal Surveys*, ed. Peter Lynn, 317-330, New York: Wiley.
- [28] Little, R.J. (2014). Survey Sampling: Past Controversies, Current Orthodoxies, and Future Paradigms. In *Past, Present and Future of Statistical Science*, COPSS 50th Anniversary Volume, Xihong Lin, David L. Banks, Christian Genest, Geert Molenberghs, David W. Scott, and Jane-Ling Wang, eds. CRC Press.
- [29] Little, R.J. and Rubin, D.B. (2015). Missing Data. To appear in *International Encyclopedia of the Social and Behavioral Sciences*, 2nd edition. Editor-in-Chief: James D. Wright. New York: Wiley.
- [30] Little, R.J. (2016). Selection Model (Missing Data). *Wiley StatsRef: Statistical Reference Online*.

5. Book Reviews

- [1] Little, R.J.A. (1987). Review of Rao, P.S.R.S & Sedransk, J. (1984, eds.), *W.G. Cochran's Impact on Statistics*, New York: John Wiley. *The American Scientist*, 75, 212-212.
- [2] Little, R.J.A. (1989). Review of Howard Wainer (1986, ed.), *Drawing Inferences from Self-Selected Samples*, New York: Springer-Verlag. *Journal of Official Statistics*, 5, 93-7.
- [3] Little, R.J.A. (2006). Review of A. Tsiatis (2006). *Semiparametric Theory and Missing Data*, New York: Springer-Verlag. *ISI Short Book Reviews*, Dec. 2006.

6. Articles and reports that have not received peer review

- [1] Little, R.J.A. (1974). *Missing values in multivariate analysis*. Ph.D. Dissertation, University of London, England.
- [2] Little, R.J.A. (1975). Missing values in multiple regression. *Technical Report No. 8*, Department of Statistics, University of Chicago, Chicago, IL 60637.
- [3] Little, R.J.A. (1976). Recent developments in inference about means and regression coefficients from a multivariate sample with missing values. *Technical Report No. 26*, Department of Statistics, University of Chicago, Chicago, IL 60637.
- [4] Little, R.J.A. (1978). Regression analysis of trends in differentials in fertility using maternity history data. *WFS Technical Reports No. 836*, World Fertility Survey, 35-37 Grosvenor Gardens, London SW1W OBS, England.
- [5] Little, R.J.A., & O'Muircheartaigh, C.A. (1979). Path analysis in the presence of interactions, nonlinearity and categorical variables. *WFS Technical Reports No. 1361*, International Statistical Institute, Voorburg, The Netherlands.

- [6] Little, R.J.A. (1979). Linear models and path analysis. In *United Nations Asian Population Studies Series, No. 44*. Reprinted in *WFS Occasional Papers, No. 22*, International Statistical Institute, Voorburg, The Netherlands.
- [7] Little, R.J.A. (1980). Statistical models for World Fertility Survey data. *World Fertility Survey Conference 1980, Record of Proceedings, Volume 3*, 189-260, International Statistical Institute, Voorburg, The Netherlands (with discussion).
- [8] Little, R.J.A., & Rosenbaum, P.R. (1981). Confounding and selection bias in case control studies. *EPA Technical Report 520/8-81-004*, Office of Radiation Programs, U.S. Environmental Protection Agency, Washington, DC 20460.
- [9] Little, R.J.A. (1981). Robust model based inferences about a finite population mean from weighted samples. *Proceedings of the Survey Research Methods Section, American Statistical Association 1981*, 613-617.
- [10] Little, R.J.A. (1981). Discussion of papers in "Incomplete data in regression models: Comparison of algorithms and detection of patterns." *Proceedings of Statistical Computing Section, American Statistical Association 1981*, 61-62.
- [11] Little, R.J.A. (1981). Discussion of papers in "Topics from the survey of income and program participation." *Proceedings of the Survey Research Methods Section, American Statistical Association 1981*, 152-153.
- [12] Little, R.J.A. and David, M. Weighting adjustments for non-response in panel surveys. *Technical Report, US Dept. of Commerce, Bureau of the Census*. {32}
- [13] David, M., Little, R.J.A., Samuhel, M.E. & Triest, R.K. (1983). Predicting wages and salaries: A new perspective from the Current Population Survey. *Contributed paper, Econometrics Society Meetings*.
- [14] Little, R.J.A. & Samuhel, M. E. (1983). Alternative models for CPS income imputation. *Proceedings of the Survey Research Methods Section, American Statistical Association 1983*, 415-420.
- [15] David, M., Little, R.J.A., Samuhel, M.E. & Triest, R.K. (1983). Imputation models based on the propensity to respond. *Proceedings of the Business and Economics Section, American Statistical Association 1983*, 168-173. {75}
- [16] Little, R.J.A., & Smith, P.J. (1983). Multivariate edit and imputation for economic data. *Proceedings of the Survey Research Methods Section, American Statistical Association 1983*, 518-522.
- [17] Little, R.J.A. (1984). Survey Nonresponse Adjustments (with discussion and rejoinder). *Proceedings of the Survey Research Methods Section, American Statistical Association 1984*, 1-17.
- [18] Little, R.J.A. (1985). Nonresponse adjustments in longitudinal surveys: models for categorical data. *Bulletin of the International Statistical Institute, Proceedings of the 45th Session: Invited Papers, Section 15.1*, 1-18. {44}
- [19] Little, R.J.A. (1985). Discussion of papers on repeated measures analysis of variance. *Proceedings of the Statistical Computing Section, American Statistical Association 1985*, 43-44.

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- [21] Little, R.J.A. & Su, H.L. (1987). Missing-data adjustments for partially-scaled variables. *Proceedings of the Survey Research Methods Section, American Statistical Association 1987*, 644-649.
- [22] Czajka, J.L., Hirabayashi, S.M., Little, R.J.A. & Rubin, D.B. (1987). Evaluation of a new procedure for estimating income aggregates from advance data. In *Statistics of Income and Related Administrative Record Research: 1986-1987*, U.S. Department of the Treasury, 109-136.
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- [24] Little, R.J.A. (1989). Survey inference with weights for differential sample selection or nonresponse. *Proceedings of the Survey Research Methods Section, American Statistical Association 1989*, 62-71.
- [25] Little, R.J.A. (1990). Regression with incomplete X's: an abridged review. *Proceedings of the Survey Research Methods Section, American Statistical Association 1990*.
- [26] Little, R.J.A. (1990). Discussion of papers by Shuster & Suissa, Hilton & Mehta. Invited discussion, *Proceedings of the Biopharmaceutical Section, American Statistical Association 1990*.
- [27] Little, R.J.A. (1991). Discussion of papers by Kennickell, Lent, and Hostetter & O'Connor. *Proceedings of the Survey Research Methods Section, American Statistical Association 1991*, 21-23.
- [28] Little, R.J.A. (1991). Discussion of "Estimation Techniques with Missing Data," *1991 Annual Research Conference Proceedings*, U.S. Bureau of the Census, 441-446.
- [29] Lazzeroni, L.C. & Little, R.J.A. (1993). Models for smoothing post-stratification weights. *Proceedings of the Survey Research Methods Section, American Statistical Association 1993*, 764-769.
- [30] Little, R.J.A. (1993). Discussion of Invited Paper Session, "Exploring the Imputation of Income, Expenditures and Assets in Household Surveys." *Proceedings of the Survey Research Methods Section, American Statistical Association 1993*, 117-119.
- [31] Ezzati-Rice, T.M., Khare, M., Rubin, D.B., Little, R.J.A. & Schafer, J.L. (1993), "A Comparison of Imputation Techniques in the Third National Health and Nutrition Examination Survey", *Proceedings of the Survey Research Methods Section, American Statistical Association 1993*, 303-308. {17}
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- NCHS Health Examination Surveys. *Proceedings of the 1995 Annual Research Conference*, U.S. Bureau of the Census, 257-266. [57]
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- [38] Heeringa*, S., Raghunathan, T. & Little, R.J.A. (1997). Bayesian Estimation and Inference for Multivariate Coarsened Data on U.S. Household Income and Wealth. *Proceedings of the International Association of Survey Statisticians*, International Statistical Institute, Istanbul, Turkey (with discussion).
- [39] Heeringa*, S., Little, R.J.A. & Raghunathan, T. (1997). Imputation of Multivariate Data on Household Net Worth. *Proceedings of the Survey Research Methods Section, American Statistical Association 1997*, 135-140.
- [40] Little, R.J.A. & Raghunathan, T. (1997). Should imputation of missing data condition on all observed variables? *Proceedings of the Survey Research Methods Section, American Statistical Association 1997*, 617-622.
- [41] Elliott*, M. R. & Little, R.J.A. (1999). On Combining Information from a Census, a Coverage Measurement Survey and Demographic Analysis. *Proceedings of the Survey Research Methods Section, American Statistical Association 1999*.
- [42] Elliott*, M. R. & Little, R.J.A. (1999). Weight Trimming in a Random Effects Model Framework. *Proceedings of the Survey Research Methods Section, American Statistical Association 1999*, 365-370.
- [43] Tang*, G., Little, R.J. & Raghunathan, T.E. (2000). Analysis of Bivariate Incomplete Monotone Data. *Proceedings of the Survey Research Methods Section, American Statistical Association 2000*.
- [44] Tang*, G., Little, R.J. & Raghunathan, T. (2001). Pseudo-Likelihood Selection Models for Multivariate Incomplete Data. Contributed paper, Joint Statistical Meetings, Atlanta GA.
- [45] Little, R.J.A. & Vartivarian*, S. (2001). On Weighting the Rates in Nonresponse Weights. *Proceedings of the Joint Statistical Meetings Proceedings of the Survey Research Methods Section, American Statistical Association 2001*.
- [46] Vartivarian*, S. & Little, R.J.A. (2002). On the Formation of Weighting Adjustment Cells for Unit Nonresponse. *Proceedings of the Joint Statistical Meetings Proceedings of*

- the Survey Research Methods Section, American Statistical Association* 2002, 3553-3558. Also: *University of Michigan Department of Biostatistics Working Paper Series*, 10. {31}
- [47] Liu*, F. & Little, R.J.A. (2002). Multiple Imputation and Statistical Disclosure Control in Microdata. *Proceedings of the Survey Research Methods Section, American Statistical Association* 2002, 2133-2138.
- [48] Little, R.J.A. & Liu, F. (2003). Selective multiple imputation of keys for statistical disclosure control in microdata, *The University of Michigan Department of Biostatistics Working Paper Series*, 6. {40}
- [49] Liu*, F. & Little, R.J.A. (2003). Smike vs. Data Swapping and PRAM for Statistical Disclosure Control in Microdata: a Simulated Study. *Proceedings of the Survey Research Methods Section, American Statistical Association* 2003, 2497-2502.
- [50] Vartivarian*, S. & Little, R.J.A. (2003). Weighting Adjustments for Unit Nonresponse with Multiple Outcome Variables. *Proceedings of the Survey Research Methods Section, American Statistical Association* 2003, 4358-4363.
- [51] Bhavnani, S.K., Bichakjian, C.K., Johnson, T.M., Little, R.J., Peck, F.A., Schwartz, J.L., & Strecher, V.J. (2003). Strategy Hubs: Next-Generation Domain Portals with Search Procedures. *Proceedings of Computer Human-Interaction Conference '03*, 393-400. {50}
- [52] Little, R.J.A. & Vartivarian*, S. (2004). Does weighting for nonresponse increase the variance of survey means? *Proceedings of the Survey Research Methods Section, American Statistical Association* 2004, 3897-3904.
- [53] Zhang*, G. & Little, R.J. (2005). Extensions of the Penalized Spline Propensity Prediction Method of Imputation. *American Statistical Association, Proceedings of the Biometrics Section, Joint Statistical Meetings* 2005, 455-462.
- [54] Couper, M.P., Peytchev, A., Little, R.J., Strecher, V.J. & Rothert, K. (2005). Combining Information from Multiple Modes to Reduce Nonresponse Bias. *Proceedings of the Survey Research Methods Section, American Statistical Association* 2005, 2910-2917.
- [55] Zhou*, Y., Kalbfleisch, J. & Little, R.J. (2006). Combining Bootstrap and Bayes Inferences via Discrepancy Statistics. *American Statistical Association, Proceedings of the Joint Statistical Meetings* 2006.
- [56] Chen*, Q., Elliott, M.D. & Little, R.J. (2007). Bayesian Penalized Spline Model-Based Estimation of the Finite Population Distribution for Unequal Probability Samples. *Proceedings of the Survey Research Methods Section, American Statistical Association* 2007, 2969-2975.
- [57] Andridge*, R. & Little, R.J. (2008). Proxy Pattern-Mixture Analysis for Survey Nonresponse. *Proceedings of the Survey Research Methods Section, American Statistical Association* 2008, 3261-3268.
- [58] An*, Di, Little, R.J. & McNally, J.W. (2008). Multiple Imputation Methods for Disclosure Limitation in Longitudinal Data. *Proceedings of the Survey Research Methods Section, American Statistical Association* 2008, 3362-3368.

- [59] Little, R.J. (2008). Weighting and prediction in sample surveys (with discussion and rejoinder). Invited paper, *Diamond Jubilee volume, Calcutta Statistical Association Bulletin*, 60, 1-47. {13}
- [60] Andridge, R. and Little, R.J. (2009). Extensions of Proxy Pattern-Mixture Analysis for Survey Nonresponse. *Proceedings of the Survey Research Methods Section, American Statistical Association 2009*, 2468-2482.
- [61] Andridge*, R.H. & Little, R.J. (2011). Proxy pattern-mixture analysis for survey nonresponse. *Proceedings of the 2010 Statistics Canada Symposium*.
- [62] Houchens, R.L., Ross, D.N., Setodji, C.M., Uscher-Pines, L., Little, R.J. (2012). *Healthcare Cost and Utilization Project Nationwide Inpatient Sample Redesign, Final Report, Deliverable # 1823.03, September 14, 2012*.
- [63] Little, R.J. and Wright, T. (2012). Wanted! Statisticians in the Federal Statistical System. *Amstat News*, 425, 27-28.
- [64] Franco, C., Little, R.J., Louis, T.A. and Slud, E.V. (2014). Coverage Properties of Confidence Intervals for Proportions in Complex Sample Surveys. *Proceedings of the Survey Research Methods Section, American Statistical Association 2014*.

7. Publications Pending

(a) Submitted

- [1] Zhou*, T., Elliott, M.R. and Little, R.J. (2019). Addressing Disparities in the Assignment Propensity Distributions for Treatment Comparisons from Observational Studies. Submitted to *Biostatistics*.
- [2] Boonstra, P.S., Little, R.J., West, B.T., Andridge*, R.R. and Alvarado-Leiton, F. (2019). A simulation study of diagnostics for bias in non-probability samples. Submitted to *International Statistical Review*.

(b) Under revision

- [1] Andridge*, R.R. and Little, R.J. (2019). Proxy Pattern-Mixture Analysis for a Binary Variable Subject to Nonresponse. Under revision for *Journal of Official Statistics*
- [2] Andridge*, R.R., West, B.T., Little, R.J., Boonstra, P. and Alvarado-Leiton, F. (2019). Indices of Non-Ignorable Selection Bias for Proportions. Under revision for *Applied Statistics*.

(c) In preparation

- [1] Zanganeh, S.Z., Keener, R.W. and Little, R.J. (2013). Bayesian nonparametric estimation of finite population quantities in absence of design information on sampled units.
- [2] Yang, Y. and Little, R.J. (2015). Spline Pattern-Mixture models for missing data.
- [3] Yang, Y. and Little, R.J. (2015). Spline Pattern-Mixture models for missing categorical data.

SHORT COURSES AND TUTORIALS

- 1987 Statistical Analysis with Missing Data. *Joint Statistical Meetings*, San Francisco (with D.B. Rubin).
- 1987 Statistical Analysis with Missing Data. Invited tutorial, *Princeton Applied Statistics Conference*, Newark NJ.
- 1989 Statistical Analysis with Missing Data. *International Statistical Institute*, Paris, France (with D.B. Rubin).
- 1989 Statistical Analysis with Missing Data. Invited tutorial, Southern California chapter, American Statistical Association (with D.B. Rubin).
- 1994 Missing data in surveys. University of Southampton, England.
- 1995 Handling drop-outs in clinical trials. *51st Deming Conference on Applied Statistics*, Atlantic City.
- 1996 Statistical analysis with missing data (with T. Raghunathan). *International Biometric Society ENAR Spring Meeting*, Richmond VA.
- 1999 Statistical Analysis with Missing Data. Swedish Society of Biostatisticians, Stockholm University, Sweden, January 1999 (with T. Raghunathan).
- 2000 Statistical Analysis with Missing Data. Procter and Gamble, Cincinnati, Oct 2000.
- 2004 Statistical Analysis with Missing Data. Biometric Society ENAR Spring Meeting, Pittsburgh PA, March 2004 (with T. Raghunathan)
- 2004 Statistical Analysis with Missing Data. Joint Program for Survey Methodology, Arlington VA, May 2004 (with T. Raghunathan)
- 2004 Multiple Imputation for Clinical Trials. ASA FDA/Industry Workshop, Washington DC, September 2004.
- 2005 Bayesian Inference in Surveys. Joint Program on Survey Methodology, University of Maryland, May 2005 (with T. Raghunathan).
- 2005 Statistical Analysis with Missing Data. Center for Statistical Consulting and Research, University of Michigan, May 2005 (with T. Raghunathan).
- 2007 Missing Data in Surveys, Italian Statistical Institute, Rome, June 2007.
- 2008 Sample Surveys and Bayesian Statistics. *Conference on Sample Surveys and Bayesian Statistics*, Southampton, U.K., August 2008 (with T. Raghunathan and M. Ghosh).
- 2008 Missing data in clinical trials. Food and Drug Association, Washington D.C., October 2008.
- 2008 Missing data in clinical trials. University of Alabama, Birmingham, December 2008.
- 2009 Bayesian Inference for Sample Surveys. Joint Program for Survey Methodology, Bethesda, MD, May 2009 (with T. Raghunathan).

- 2010 Statistical Analysis with Missing Data. Center for Statistical Computation and Research, University of Michigan (with T. Raghunathan, Kathy Welch and Brady West).
- 2010 Bayesian Inference for Sample Surveys. Joint Statistical Meetings, Vancouver BC, August 2010 (with T. Raghunathan).
- 2010 Statistical Analysis with Missing Data. Two week workshop, Joint Institute of University of Michigan and Peking University, Beijing, China, August 2010.
- 2012 Statistical Analysis with Missing Data. Joint Statistics Meetings, San Diego, CA, August 2012 (with Trivellore Raghunathan).
- 2012 Missing Data in Clinical Trials. *Annual Deming Conference on Applied Statistics*, Atlantic City, Dec 2012 (with Trivellore Raghunathan).
- 2013 Missing Data. *Indiana University Workshop on Methods*, Indiana University, Bloomington IN, February 2013.
- 2013 Missing Data in Clinical Trials. *DIA/FDA Statistics Forum*, Bethesda MD, April 2013.
- 2013 Missing Data in Clinical Trials. *Joint Conference of the 5th Annual International Symposium on the Evaluation of Clinical Trials, and the Fourth East Asia Regional Biometric Conference*, Beijing, China, July 2013.
- 2013 The Analysis of Census and Survey Data: History, Current Approaches, and Research Topics. *Tutorial, Opening Workshop, Program on Statistical and Computational Methods in the Social Sciences*, Statistics and Applied Mathematical Sciences Institute, Research Triangle Park, North Carolina, August, 2013.
- 2013 Missing Data in Clinical Trials, Medtronic Statistical Conference 2013, Minneapolis, November 2013.
- 2014 Statistical Analysis with Missing Data. *Joint Program for Survey Methodology* (with T. Raghunathan), Washington DC, Feb 2014.
- 2014 Bayesian Inference for Sample Surveys. *Joint Program for Survey Methodology*, Washington, DC, September 2014 (with T. Raghunathan).
- 2015 Bayesian Inference for Sample Surveys. *Short Course, Journal of Official Statistics 40th Anniversary Conference*, Stockholm, Sweden
- 2015 Statistical Analysis with Missing Data. *Two Day Short Course, Joint Statistical Meetings*, Seattle WA, August 2015. (Joint with Trivellore Raghunathan)
- 2015 Calibrated Bayesian Inference for Sample Surveys. *Eustat XXVIII International Statistical Seminar, Vitoria-Gasteiz, Spain*, Nov 2015.
- 2015 Statistical Analysis with Missing Data. *Short Course, Joint Program for Survey Methodology*, University of Maryland, Nov 2015 (Joint with Trivellore Raghunathan)
- 2016 Bayesian Inference for Sample Surveys. *Joint Program for Survey Methodology*, Washington, DC, September 2016 (with T. Raghunathan).

- 2017 Missing Data in Clinical Trials. *Short Course, Midwest Biopharmaceutical Statistics Workshop*, Muncie, IN, May 2017
- 2017 Missing Data in Clinical Trials. *Short Course, Food and Drug Administration*, Bethesda, MD, Sept 2017
- 2017 Statistical Analysis with Missing Data. *Short Course, Joint Program for Survey Methodology*, University of Maryland, Dec 2017 (Joint with Trivellore Raghunathan)

SELECTED INVITED PRESENTATIONS

- 1976 Recent developments in inference about means and regression coefficients from a multivariate sample with missing values. Invited paper, *Joint Statistical Meetings*, Boston, 1976.
- 1980 Statistical models for World Fertility Survey Data. Invited paper, *World Fertility Survey Conference*, London, England. International Statistical Institute, Voorburg, The Netherlands.
- 1981 Standardization of Rates. Invited paper, *ASA/EPA Conference on Statistical and Epidemiological Methodology for Ionizing Radiation*, Berkeley Springs, West Virginia.
- 1984 Fertility exposure analysis: Further developments. Invited paper, *IUSSP/WFS Seminar on Integrating Proximate Determinants into Analysis of Fertility Trends*, London, May, 1984. (with J.N. Hobcraft).
- 1985 Nonresponse adjustments in longitudinal surveys: models for categorical data. Invited paper, *45th Meeting of the International Statistical Institute*, Amsterdam, The Netherlands.
- 1986 Statistics at the World Fertility Survey. Invited paper, *Joint Statistical Meetings*, Las Vegas, Nevada.
- 1986 Missing data adjustments in Census Bureau surveys. Invited paper, *Second Annual Research Conference, Bureau of the Census*, U.S. Department of Commerce.
- 1989 Survey inference with weights for differential sample selection or nonresponse. Invited paper, *Joint Statistical Meetings*, Washington DC.
- 1989 Statistical Analysis with Missing Data. Invited tutorial, Southern California chapter, American Statistical Association (with D.B. Rubin).
- 1991 Post-stratification: a modeler's perspective. JASA Theory and Methods Invited Paper, *Joint Statistical Meetings*, Atlanta GA.
- 1993 A class of pattern-mixture models for normal missing data. Invited paper, *IMS Conference on Likelihood*, Pennsylvania State University, PA.

- 1994 Missing data in longitudinal studies. Invited lecture, *Jacob Marschak Interdisciplinary Colloquium on Mathematics in the Behavioral Sciences*, UCLA, Los Angeles CA.
- 1994 Pattern-mixture models for nonignorable missing in longitudinal studies. Invited paper, *International Biometrics Society ENAR Spring Meeting*, Cleveland OH.
- 1994 Pattern-mixture models for multivariate incomplete data with covariates. Invited paper, *Workshop on Statistical Analysis with Missing Data*, Southampton University, England.
- 1994 Modeling the drop-out mechanism in repeated-measures studies. Invited paper, *9th International Workshop on Statistical Modeling*, Exeter, U.K.
- 1994 Models for attrition in longitudinal studies. Invited paper, *15th Meeting of the International Society for Clinical Biostatisticians*. Basle, Switzerland.
- 1994 Developments in missing data analysis. Invited paper, *General Methodology Section, Joint Statistical Meetings*, Toronto, Canada.
- 1995 Modeling the drop-out mechanism in repeated-measures studies. Special Session, *Drug Information Association Meeting*, Hilton Head, SC.
- 1995 Modeling the drop-out mechanism in repeated-measures studies. Invited paper, *Great Lakes Symposium*, Kalamazoo MI.
- 1996 Statistical Analysis of Repeated-Measures Data with Missing Values. Invited paper, *IBC International Conference on Pharmacokinetic / Pharmacodynamic Analysis*, Washington DC.
- 1996 Intent-to-treat analysis in longitudinal studies with drop-outs (with Linda Yau). Invited Paper, *International Biometric Society ENAR Spring Meeting*, Richmond VA.
- 1996 Invited Discussant, *U.S. Bureau of the Census Annual Research Conference*, Arlington, VA.
- 1996 Intent-to-Treat Analysis for Longitudinal Studies with Drop-Outs (with Linda Yau). Invited paper, *Joint Statistical Meetings*, Anaheim CA.
- 1996 Statistical Techniques for Analyzing Data from Preventive Trials: Treatment of No-Shows Using Rubin's Causal Model (with Linda Yau). Invited paper, *Social Science and Statistics: A Conference in Honor of the late Clifford C. Clogg*. Pennsylvania State University, PA.
- 1997 Summary-Measures Approaches to Repeated-Measures Studies when Data are not Missing Completely at Random (with Trivellore Raghunathan). Invited paper, *Biometrics Society ENAR Conference*, Memphis TN.
- 1997 Some Methods for the Analysis of Longitudinal Data with Dropouts. *Sukhatme invited lecture*, Iowa State University, April 1997.
- 1997 Summary-Measures Approaches to Repeated-Measures Studies when Data are not Missing Completely at Random (with Trivellore Raghunathan). Invited paper, *Conference on Burning Issues in Medical Statistics*, Leicester, U.K., August 1997.

- 1997 Bayesian Estimation and Inference for Multivariate Coarsened Data on U.S. Household Income and Wealth (with S. Heeringa and T. Raghunathan). Invited paper, *51st Meeting of the International Statistical Institute*, Istanbul, Turkey, August 1997.
- 1997 Summary-Measures Approaches to Repeated-Measures Studies when Data are not Missing Completely at Random (with Trivellore Raghunathan). Invited paper, *American Public Health Association Meetings*, Indianapolis IN, November 1997.
- 1998 Statistical Analysis of Repeated-Measures Data with Drop-Outs. Invited Paper, *Conference on Statistical Methodology in Alzheimer's Disease Research*, May 15-17, 1998, Lexington, KY.
- 1999 Multiple Imputation for Missing Data in Clinical Trials. Invited Paper, *International Biometric Society ENAR Spring Meeting*, Atlanta, GA, March 1999.
- 1999 Missing Values in Repeated-Measures Data. Invited Paper, *Conference on Informatively Missing Data*, Texas A and M University, April 1999.
- 1999 Missing Data in Longitudinal Studies. Invited Paper, *Symposium on Longitudinal Studies of Quality of Life*, John's Hopkins University, May 1999.
- 1999 Bayesian Methods for Sample Surveys Subject to Unit and Item Nonresponse. Invited Paper, *International Conference on Analysis of Survey Data*, Southampton, England, August 1999.
- 1999 Multivariate Imputation of Coarsened Survey Data on Household Wealth (with S. Heeringa & T. Raghunathan). Invited paper, *International Conference on Survey Nonresponse*, Portland, OR, October 1999.
- 2000 Statistical Analyses of Clinical Data with Missing Observations: Methods and Inferences. Invited Discussant, *International Biometric Society ENAR Spring Meeting*, Chicago IL, March 2000.
- 2000 Pattern-Mixture Models for Nonignorable Nonresponse (with Trivellore Raghunathan & Gong Tang). Invited paper, *International Biometric Society ENAR Spring Meeting*, Chicago IL, March 2000.
- 2000 Statistical Analysis with Missing Data: Past, Present and Future. Invited keynote address, *American Sociological Association Methodology Section Spring Meeting*, Los Angeles, CA, March 2000.
- 2000 Pattern and Pattern-Set Mixture Models for Nonignorable Nonresponse (with Trivellore Raghunathan and Gong Tang). Invited paper, *XXth International Biometric Conference*, Berkeley CA, July 2000.
- 2000 Analysis of Longitudinal Data with Nonresponse. Invited paper, Workshop on nonresponse, May 25-26, Berlin, Germany. (Presented in my absence by Martin Spiess).
- 2000 Missing data in longitudinal studies. Invited talk, Johnson and Johnson Pharma Meeting, Princeton NJ, Sept 2000.

- 2000 Pattern-Set Mixture Models for Nonignorable Missing Data (with Trivellore Raghunathan & Gong Tang). Invited paper, *Great Lakes Symposium*, Kalamazoo, Oct 2000.
- 2000 Models for Missing Data in Longitudinal Studies (with T. Raghunathan & Gong Tang), Invited paper, *Second Seattle Symposium in Biostatistics*, Seattle WA, Nov 2000.
- 2001 Two topics in Survey Nonresponse Adjustments. Invited paper, *CDC/ATSDR Statistical Symposium on Statistical Methods*, Atlanta GA, Jan 2001.
- 2001 Discussion leader, Roundtable on Missing Data, *International Biometric Society ENAR Spring Meeting*, Charlotte NC, March 2001.
- 2001 Invited Discussion, Modern Approaches to Missing Data Problems, *Joint Statistical Meetings*, Atlanta GA. Aug 2001.
- 2002 Robust Model-Based Inference for Multivariate Data with Missing Values. Keynote lecture, *AMS/IMS/SIAM Joint Summer Research Conference on Emerging Issues in Longitudinal Data Analysis*, Mt. Holyoke College, MA. July, 2002.
- 2002 To Model or not to Model: Competing Modes of Inference in Sample Surveys, Invited Introductory Overview Lecture, *Joint Statistical Meetings*, New York NY. Aug 2002.
- 2002 On Incorporating the Selection Probabilities into Robust Model-Based Inference (with Hui Zheng). Invited paper, *Joint Statistical Meetings*, New York NY. Aug 2002.
- 2003 Causal Inference in Choice-based Intervention Studies. Invited paper, *International Biometric Society ENAR Spring Meeting*, Tampa FL, March 2003 (with Xihong Lin & Qi Long)
- 2003 Invited Discussion, Causal Inference at the Biostatistics-Econometrics Interface. *International Biometric Society ENAR Spring Meeting*, Tampa FL, March 2003
- 2003 Causal Inference in Causal Inference in Hybrid Intervention Studies Involving Treatment Choice. Invited paper, *Joint Statistical Meetings*, San Francisco, August 2003 (with Xihong Lin & Qi Long)
- 2003 Robust Likelihood-Based Analysis Of Multivariate Data With Missing Values. Invited Paper, *54th Meeting of the International Statistical Institute*, Berlin, Germany, August 2003 (with Hyonggin An)
- 2003 Invited Discussion, Session on Missing Data, *Federal Conference on Statistical Methodology*, Arlington VA, November 2003
- 2004 Causal Inference in Hybrid Intervention Trials Involving Treatment Choice. Invited Paper, American Sociological Association, Section on Methodology 2004 Annual Meeting, Ann Arbor, April 2004 (with Qi Long & Xihong Lin)
- 2004 Robust Likelihood-Based Analysis of Multivariate Data With Missing Values. Invited Paper, *International Society for Bayesian Analysis World Meeting*, Vina Del Mar, Chile, May 2004 (with Hyonggin An)

- 2004 Discussion of “Valid Survey Inference via Imputation Requires Multiple Imputation” by Don Rubin. Special 10th Anniversary lecture, Joint Program for Survey Methodology, University of Maryland, May 2004.
- 2004 Multiple Imputation for Statistical Disclosure Limitation. Invited Paper, Nuremberg Statistics Symposium July, 2004.
- 2004 Robust Likelihood-Based Analysis of Multivariate Data with Missing Values. Invited Paper, workshop on Missing Data Problems, University of Toronto, Canada, August, 2004 (with Hyonggin An).
- 2004 Causal Inference in Hybrid Intervention Trials Involving Treatment Choice. Invited paper, Joint Statistical Meetings, Toronto, August 2004 (with Qi Long & Xihong Lin).
- 2005 Discussant of papers for “Something from Nothing? Scientific Inference and Missing Data”, symposium sponsored by the AAAS Statistics Section, AAAS Annual Meeting, Washington DC, Feb 2005.
- 2005 Second of Vote of Thanks for “Local model uncertainty and incomplete-data bias” by J. Copas & S. Eguchi, Royal Statistical Society Read Paper, London, March 2005.
- 2005 The Design of the National Children’s Study – National Probability Sample, Medical Center Model, or What? Invited Paper, *International Biometric Society ENAR Spring Meeting*, Austin, TX, March 2005.
- 2005 Recent Developments in Missing Data Analysis. Keynote Talk, *SAS User’s Group International Conference*, Philadelphia, April 2005.
- 2005 The Role of Randomization in Large Medical Studies: Two Case Studies. Invited Address, *Statistical Science Awards, Centers for Disease Control*, June 2005.
- 2005 Calibrated Bayes: a Bayes/Frequentist Roadmap. Presidential Invited Address, *Joint Statistical Meetings*, Minneapolis, August 2005.
- 2006 Statistical Analysis with Missing Data. Invited Symposium, *Summer Program in Data Analysis*, York University, Canada, May 2006.
- 2006 The Bayesian Approach to the Analysis of Finite Population Surveys. Plenary Invited paper, *8th Valencia International Meeting on Bayesian Statistics*, Benidorm, Spain, May 2006 (with Hui Zheng).
- 2006 The Design of the National Children’s Study – National Probability Sample, Medical Center Model, or What? In Symposium on Design of the National Children’s Study, *2nd American Congress of Epidemiology*, Seattle, Washington, June 2006 (with Michael Elliott).
- 2006 Robust likelihood-based analysis of longitudinal data with missing values. Invited paper, *International Conference on Methodology of Longitudinal Surveys*, University of Essex, U.K., July 2006 (with Guangyu Zhang).
- 2006 The Bayesian Approach to the Analysis of Finite Population Surveys. Invited Paper, *Joint Statistical Meetings*, Seattle, August 2006 (with Hui Zheng)

- 2006 Recent Developments in Missing Data Analysis. Invited Paper, *Winemiller 2006 Conference on Methodological Developments of Statistics in the Social Sciences*, Columbia, Missouri, October 2006.
- 2006 Disclosure Limitation: Countermeasures and Risks. Public seminar, "Confidentiality Protection and Informed Consent: What Have We Learned? How Should We Proceed?" *Committee on National Statistics, National Academy of Sciences*, Washington DC, October 2006 (with T. Raghunathan).
- 2007 Should we use the survey weights to weight? *Invited Distinguished Lecture, Joint Program for Survey Methodology*, University of Maryland, April 2007.
- 2007 An Objective Bayes view of survey weights. Invited paper, *6th International Workshop on Objective Bayesian Analysis*, Rome, Italy (with Hui Zheng).
- 2007 Invited discussion of "National Children's Study: Challenges and Promises," Invited Session, Joint Statistical Meetings, Salt Lake City UT, July 2007.
- 2007 The robust Bayesian approach to sample survey inference. Invited paper, *56th Session of the International Statistical Institute*, Lisbon, Aug 2007 (with Hui Zheng).
- 2008 Invited discussion of "The use of survey samples in epidemiological follow-up studies", Invited Session, Biometric Society ENAR Meeting, Alexandria VA, March 2008.
- 2008 Why Bayes, for Statistics in General and Missing Data in Particular? Invited talk, Workshop on Bayesian Methods That Frequentists Should Know, Maryland University, April 2008.
- 2008 Missing data in clinical trials. Plenary invited session, 31st Midwest Biopharmaceutical Statistics Workshop, Muncie, IN, May 2008.
- 2008 How well quantified is the limit of quantification? Invited paper, 41st Annual Meeting of the Society for Epidemiologic Research, Chicago, IL. June 2008 (with Ying Guo and Ofer Harel).
- 2008 Introduction to Multiple Imputation. Invited Introductory Overview Lecture, Joint Statistical Meetings, Denver CO. July 2008.
- 2009 Let's Play Slumdog Tenure Chair! Invited presentation, ENAR Workshop for Junior Researchers, San Antonio, TX, March 2009
- 2009 Proxy Pattern-Mixture Analysis for Survey Nonresponse. Invited Talk, North Eastern Methodology Forum, Department of Politics, New York University, May 2009.
- 2009 A Modeler's Perspective on Survey Weights. Invited Paper, Joint Statistical Meetings, Washington DC, August 2009.
- 2009 Missing Data in Clinical Trials: Some Considerations. Invited paper, Workshop on Emerging Issues in the Analysis of Longitudinal Data, Banff, Alberta, August 2009.
- 2010 Let's Play Slumdog Tenure Chair Again! Invited presentation, ENAR Workshop for Junior Researchers, New Orleans, March 2010

- 2010 Subsample Ignorable Likelihood Methods for Regression with Missing Data. Invited talk, Conference on Statistical Methods and Life History Analysis, Waterloo, ON, May 2010.
- 2010 Handling of Missing Data in Clinical Trials: Findings of a National Academy Study. Background and Introduction, & Analysis Findings. Invited talk, Joint Statistical Meetings, Vancouver BC, August 2010.
- 2010 Statistical Analysis with Missing Data. Two week workshop, Joint Institute of University of Michigan and Peking University, Beijing, China, August 2010.
- 2010 Handling of Missing Data in Clinical Trials: Findings of a National Academy Study. Invited presentation, *National Heart, Lung and Blood Institute Workshop: Clinical Trials, Past, Present and Future*, Bethesda MD, September 2010.
- 2010 Handling of Missing Data in Clinical Trials: Findings of a National Academy Study. Invited presentation, *2010 FDA/IndustryWorkshop*, Bethesda MD, September 2010.
- 2010 Proxy Pattern-Mixture Analysis for Survey Nonresponse. Invited Paper, *2010 Statistics Canada International Methodology Symposium*, Ottawa Canada.
- 2011 Handling of Missing Data in Clinical Trials: Findings of a National Academy Study. Invited presentation, *2010 FDA/DIA Workshop*, Bethesda MD, April 2011.
- 2011 Handling of Missing Data in Clinical Trials: Findings of a National Academy Study. Invited presentation, *4th Annual FDA/MTLI Medical Device and IVD Statistical Issues Workshop*, Washington DC, April 2011.
- 2011 1. Calibrated Bayes: spanning the divide between frequentist and Bayesian inference; 2. Some methods for handling missing values in outcome variables; 3. Subsample ignorable likelihood methods for regression with missing values of covariates -- throwing data away can actually pay! 4. Measurement error as missing data: the case of epidemiologic assays. Greenberg Distinguished Lectures, Department of Biostatistics, University of North Carolina, May 2011.
- 2011 On Repeated Measures Models with Incomplete Covariate Data. Invited Talk, *Workshop on Survival and Event History Analysis*, University of Montreal, May 2011.
- 2011 The Calibrated Bayes approach to survey sampling. Invited paper, Joint Statistical Meetings, Miami FL, August 2011.
- 2011 Calibrated Bayes, Models, and the Role of Randomization in Surveys and Experiments. Section on Health Policy Statistics Lunch Speaker, Joint Statistical Meetings, Miami FL, August 2011.
- 2011 Discussion of the 2010 National Research Council's Recommendations for the Prevention and Treatment of Missing Data in Clinical Trials. Invited presentation, *2011 FDA/IndustryWorkshop*, Bethesda MD, September 2011.
- 2011 Reproductive Aging in the context of Hormone Therapy: Assessing bias and evaluating proposed markers of transition. Invited paper, *STRAW + 10 Workshop*, Washington DC, September 2011.

- 2011 Total Survey Error: Missing Conceptual Components, and Design-Based/Model-Based Viewpoints. *Hansen Memorial Lecture, Washington Statistical Society*, October 2011 (with Robert M. Groves).
- 2012 Calibrated Bayes Inference for Sample Surveys. *Federal Committee on Statistical Methodology Research Conference*, Washington DC, January 2012.
- 2012 Much more than bean counting: why you should become a statistician. *Nieuwland Lecture Series*, University of Notre Dame, May 2012.
- 2012 Calibrated Bayes: an attractive paradigm for official (and unofficial) statistics. Keynote Lecture, *Indiana Statistics Day*, University of Notre Dame, May 2012
- 2012 Statistics at the Census Bureau: towards a new inferential paradigm. Keynote Lecture, *Southern Regional Council on Statistics Summer Research Conference*, June 2012
- 2012 Invited Discussion of “Recent Developments in Assessing and Mitigating Nonresponse Bias”, *International Conference on Establishment Surveys*, Montreal, Canada, June 2012
- 2012 Calibrated Bayes: an Alternative Inferential Paradigm for Official Statistics. *Foreman Lecture*, Australian Statistics Conference, Adelaide, Australia, July 2012.
- 2012 In Praise of Simplicity, Not Mathematistry! Simple, Powerful Ideas for the Applied Statistician. *COPSS Fisher Lecture*, Joint Statistics Meetings, San Diego, CA, August, 2012.
- 2012 Treatment Discontinuation and Missing Data in Clinical Trials: Identifiability and Ignorability Issues. Invited Paper, Joint Statistical Meetings, San Diego, CA, August 2012.
- 2013 Panel Discussion: Factors, Issues, and Values to Balance and Consider in Reaching Decisions about the NCS Design. Invited Panelist, *Workshop on the Design of the National Children’s Study*, Committee on National Statistics, National Research Council, January 2013.
- 2013 The Prevention and Treatment of Missing Data in Clinical Trials. *Donna J. Brogan Lecture*, Emory University, April 2013.
- 2013 Partially Missing at Random and Ignorability for Subsets of Parameters in Missing Data Problems. Invited Paper, *Graybill Conference*, Fort Collins, CO, June 2013.
- 2013 Partially Missing at Random and Ignorability for Subsets of Parameters in Missing Data Problems. Invited Paper, *Conference on Applications of Missing-Data Procedures*, Bamberg, Germany, June 2013.
- 2013 Missing Data in Clinical Trials. Keynote presentation, *Joint Conference of the 5th Annual International Symposium on the Evaluation of Clinical Trials, and the Fourth East Asia Regional Biometric Conference*, Beijing, China, July 2013.
- 2013 Survey Sampling: Past Controversies, Current Orthodoxy, Future Paradigms. *Introductory Overview Lecture*, Joint Statistical Meetings, Montreal, Canada, August 2013.

- 2013 An Overview on Weighting Methods. *Invited Presentation, Opening Workshop, Program on Statistical and Computational Methods in the Social Sciences*, Statistics and Applied Mathematical Sciences Institute, Research Triangle Park, North Carolina, August, 2013
- 2014 Seven Tenets of the School of Rubin. Keynote presentation, *Donald Rubin 70th Birthday Symposium*, Harvard University, March 2014.
- 2014 Statisticians: Guardians of Democracy! Invited presentation, *2014 Biometrics Society Eastern North American Region conference*, Baltimore MD, March 2014
- 2014 Missing Data in Clinical Trials. *Invited presentation*, FDA/AdvaMed Statistics Workshop, Rockville, MD, April 2014
- 2014 Inference from Sample Surveys: Past Controversies, Current Orthodoxies, Future Paradigms. Invited Presentation, *ISBA-George Box Research Workshop on Frontiers of Statistics*, Washington DC, May 2014
- 2014 Calibrated Bayes for Inference in Official Statistics: Barriers to Adoption. Invited Presentation, *Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data – Conference Honoring Professor Malay Ghosh*, Maryland, May 2014
- 2014 Weighting for sample selection and nonresponse: a calibrated Bayesian perspective. Invited presentation, *Computational Methods for Survey and Census Data in the Social Sciences, a Workshop for Statisticians and Social Scientists*, Centre de Recherches Mathematiques, Montreal, Canada, June 2014
- 2014 Frequentist/Bayes controversies, homoeopathy and (ES)P-values. *Leonard M. Schumann Lecture*, Epidemiology Summer Session, School of Public Health, University of Michigan, July 2014
- 2014 Practical approaches to the analysis of partially observed data Inaugural Statistics in Practice session, *International Biometrics Conference*, Florence, Italy, July 2014 (with James Carpenter)
- 2014 Robust Bayesian models for surveys with missing data and summary external information. Invited presentation, *Joint Statistical Meetings*, Boston, MA, August 2014
- 2014 Some Recent Methods for Handling Missing Values in Statistical Analysis. Keynote presentation, *Korean Statistical Society Conference*, Seoul, S. Korea, October 2014.
- 2014 Likelihood Methods for Missing Data. Invited presentation, *Workshop on Analyzing Complex Survey Data with Missing Item Values*, National Institute for Statistical Science, Washington DC, October 2014.
- 2014 Intention-to-Treat Analysis in Clinical Trials with Treatment Discontinuation and Missing Data. Keynote presentation, *2nd Annual New Jersey American Statistical Association Chapter/Bayer Pharmaceutical Statistics workshop*, November 2014.
- 2015 The Joy of Stats -- So Much More than Bean-Counting! *2015 Distinguished University Professor Lecture Series*, University of Michigan, February 2015.

- 2015 Calibrated Bayes: An Attractive Framework for Official Statistics in the 21st Century. Keynote presentation, *Conference on New Techniques and Technologies for Statistics*, European Commission Eurostat, Brussels, Belgium, March 2015.
- 2015 Modern Developments in Sensitivity Analyses. Invited Presentation, *EXL Missing Data in Clinical Trials Forum*, Philadelphia, March 2015.
- 2015 The Analysis of Clinical Trials with Treatment Discontinuation and Missing Data: What are we Predicting? Invited Presentation, *13th Annual ASA Connecticut Chapter Mini-Conference: Using Statistical Models for Prediction*. Hartford, CT, April 2015.
- 2015 Bridging Strategies in CDx Studies: a Multiple Imputation Approach. Invited Presentation, *8th Annual FDA/MTLI Device and Diagnostics Statistics Workshop*, Arlington VA, April 2015.
- 2015 When do model-based methods work? *Invited Paper, World Statistical Congress, Rio de Janeiro, Brazil*, Aug 2015
- 2015 Partially Missing At Random and Ignorable Inferences for Parameter Subsets with Missing Data. *Invited Talk, MissData Conference*, Rennes, France, Jul 2016.
- 2015 Intention-to-Treat Analysis in Clinical Trials with Treatment Discontinuation and Missing Data. *Invited Paper, Joint Statistical Meetings*, Seattle WA, Aug 2015.
- 2015 When Do Model-Based Methods Work? *Invited Paper, World Statistical Congress, Rio de Janeiro*, Aug 2015.
- 2015 A Calibrated Bayes Perspective Applied to Adaptive Survey Design. *Invited Paper, 4th Workshop on Advances in Adaptive and Responsive Survey Design*, Manchester, UK, Nov 2015.
- 2016 Intention-to-Treat Analysis with Treatment Discontinuation and Missing Data. *Flexnor Discovery Lecture*, Vanderbilt School of Medicine, January 2016.
- 2016 The treatment of missing data in a large cardiovascular clinical outcomes study. *Invited Paper, Joint Statistical Meetings*, Chicago Il, August 2016
- 2017 Penalized Spline of Propensity Methods for Missing Data and Causal Inference. *Invited Paper, Jeremy Taylor 60th Birthday Symposium*, University of Michigan, May 2017
- 2017 Penalized Spline of Propensity Methods for Treatment Comparisons. *Invited Paper, Joint Statistical Meetings*, Baltimore MD, August 2017
- 2017 Penalized Spline of Propensity Methods for Treatment Comparisons. *Invited Paper, Conference on Biostatistics in the Modern Computing Era*, Medical College of Wisconsin, Milwaukee, WI, September 2017
- 2017 Calibrated Bayes. *Invited Paper, Conference on Statistical Inference*, Washington DC, October 2017
- 2018 Invited Panel, *Conference on Statistical Issues in Clinical Trials*, University of Pennsylvania, April 2018

