

## **JEROME P. REITER**

Department of Statistical Science, Duke University  
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March 12, 2012

### **EDUCATION**

Ph.D. in Statistics, Harvard University, 1999.

A.M. in Statistics, Harvard University, 1996.

B.S. in Mathematics, Duke University, 1992.

### **DISSERTATION**

“Estimation in the Presence of Constraints that Prohibit Explicit Data Pooling.”  
Advisor: Donald B. Rubin.

### **ACADEMIC AND OTHER POSITIONS**

Mrs. Alexander Hehmeyer Associate Professor of Statistical Science, Duke University, 7/2010  
- present.

Associate Professor of Statistical Science, Duke University, 1/2009 - 6/2010.

Assistant Professor of Statistical Science, Duke University, 7/2006 - 12/2008.

Assistant Professor of the Practice of Statistics and Decision Sciences, Duke University,  
7/2002 - 6/2006.

Lecturer in Statistics, University of California at Santa Barbara, 7/2001 - 6/2002.

Assistant Professor of Statistics, Williams College, 7/1999 - 6/2001.

Interim Director, Triangle Research Data Center, 1/2006 - 9/2006.

Senior Fellow, National Institute of Statistical Sciences, 2002 - 2005.

### **ACADEMIC HONORS**

Bass Chair for Excellence in Undergraduate Teaching and Research, Duke University, 2010 -  
present.

Fellow of the American Statistical Association, 2011.

Cathie Marsh Fellowship, Centre for Census and Survey Research at the University of Manch-  
ester, 2010.

Elected member of International Statistical Institute, 2007.

Recipient of Alumni Distinguished Undergraduate Teaching Award, Duke University, 2007.

Nominated for Alumni Distinguished Undergraduate Teaching Award, Duke University, 2003,  
2005, 2006, 2007, 2008, 2009.

Nominated for University Undergraduate Teaching Award, Duke University, 2006.

## **GRANTS AND FUNDED RESEARCH**

National Science Foundation (NCRN), “The Triangle Census Research Network,” 10/2011 - 9/2016, \$2,997,591. Role: Principal Investigator.

National Science Foundation (MMS), “Multiple Imputation Methods for Handling Missing Data in Panel Studies with Refreshment Samples,” 6/2011 - 5/2013, \$160,000. Role: Principal Investigator.

U.S. Bureau of the Census, “Creating a Synthetic Public Use File for the Longitudinal Business Database,” 9/2010 - 9/2012, \$95,828 plus \$30,000 discount on Duke’s costs for Triangle Census Research Data Center. Role: PI on Intergovernmental Personnel Agreement.

National Science Foundation (TC): “Large: Collaborative Research: Practical Privacy: Metrics and Methods for Protecting Record-level and Relational Data,” 7/2010 - 7/2015, \$583,169. Role: Principal Investigator.

National Science Foundation (SES): “Joint NSF-Census-IRS Workshop on synthetic data and confidentiality protection,” 7/2009 - 6/2010, \$18,480. Role: Co-Investigator.

National Institutes of Health (NIA): “R21: Sharing Confidential Datasets With Geographic Identifiers Via Multiple Imputation,” 3/2009 - 1/2011, \$351,780. Role: Principal Investigator.

National Science Foundation (MMS), “Methodology for Improving Public Use Data Dissemination Via Multiply-Imputed, Partially Synthetic Data,” 6/2008 - 5/2011, \$180,000. Role: Principal Investigator.

Environmental Protection Agency, “Southern Center for Environmentally Driven Disparities in Birth Outcomes,” 5/2007 - 5/2011, \$7,735,620. Role: Co-Investigator (PI: Marie Lynn Miranda).

National Institutes of Health (NIDA), “The Alcohol Pharmacology Education Partnership,” 8/2005 - 7/2010, \$1,250,000. Role: Co-investigator (PI: Rochelle Schwartz-Bloom).

National Science Foundation (ITR), “Information Technology Challenges for Secure Access to Confidential Social Science Data,” 10/2004 - 10/2008, \$2,938,000 total, \$247,903 to Duke. Role: Senior Scientist (PI: John Abowd).

U.S. Bureau of the Census, “Using Synthetic Data to Protect Confidentiality of People in Group Quarters in the American Community Survey,” 9/2005 - 9/2007, \$24,000. Role: Principal Investigator.

U.S. Bureau of the Census, “Synthetic Data Methods for the Survey of Income and Program Participation Public Use File,” 6/2005 - 6/2006, \$25,000. Role: Principal Investigator.

U.S. Bureau of the Census, “Assessing Disclosure Risks for Remote Access Model Servers,” 6/2004 - 7/2005, \$25,000. Role: Principal Investigator.

Transportation Research Board, 2005. Commissioned to write paper on threats to data confidentiality in public-use transportation data (with David Banks), \$10,000.

National Institute of Statistical Sciences, “Data Confidentiality, Data Quality, and Data Integration for Federal Databases: Foundations to Software Prototypes,” 8/2002 - 8/2004, \$25,000. Role: Senior Fellow.

National Academy of Sciences Panel on Confidential Data Access for Research Purposes, 2003. Commissioned to write paper on measuring disclosure risks, \$5,000.

U.S. Bureau of the Census, "Research on Synthetic Data," 8/2002 - 8/2003, \$16,000. Role: Principal Investigator.

## **PROFESSIONAL SERVICE**

Associate Editor, *Journal of Statistical Theory and Practice*, 2009 - present.

Associate Editor, *Journal of the American Statistical Association*, 2006 - present.

Associate Editor, *Journal of Privacy and Confidentiality*, 2006 - present.

Associate Editor, *Survey Methodology*, 2004 - present.

Advisory Board, *The Encyclopedia of Measurement and Statistics*, 2005.

University of Michigan Safe Designs Project Advisory Board, 2012 - present.

Wisconsin Longitudinal Study Genetic Advisory Board, 2010 - present.

Technical Expert Panel for CMS Comparative Effectiveness Research Public Use Data Pilot Project, 2010 - 2011.

Technical Expert Panel for the Patient Safety Organization project, Agency for Healthcare Research and Quality, 2008.

Panel Member, Office of Civil Rights Workshop on Reconsidering the HIPAA De-identification Standard, 2010.

National Academy of Science Expert Meeting for NASA on the Redaction Strategy for the Airline Pilots Safety Data, 2008.

National Academy of Science Panel on Collecting, Storing, Accessing, and Protecting Social Survey Data Containing Biological Measures, 2008 - 2010.

National Academy of Sciences Panel on Re-engineering the Survey of Income and Program Participation, 2006 - 2009.

National Academy of Sciences Panel on Confidentiality Issues Arising from the Integration of Remotely Sensed Data with Social Science Survey and Other Self-Identifying Data, 2005 - 2007.

National Center for Education Statistics Configuration of Longitudinal Studies and Data Integration Task Force, 2007 - 2008.

National Center for Education Statistics Confidentiality Task Force, 2006 - 2007.

Secretary/Treasurer, American Statistical Association Section on Bayesian Statistical Sciences, 2012 - present.

American Statistical Association Scientific and Public Affairs Advisory Committee, 2012 - present.

Committee Chair, American Statistical Association Committee on Privacy and Confidentiality in Statistics, 2009 - 2011.

American Statistical Association Committee on Privacy and Confidentiality in Statistics, 2006 - 2011.

Section Chair, American Statistical Association Section on Statistics in Sports, 2008.

Program Committee, NSF-NBER Time Series Conference, 2010.

Program Committee, Total Survey Error Workshops, 2005 and 2008.

Program Committee, International Conference on Data Mining Workshop on Privacy and Security Aspects of Data Mining, 2005.

Program Chair for Statistics in Sports, 2005 Joint Statistical Meetings.

Program Chair for General Methodology, 2001 Joint Statistical Meetings.

Honors Examiner in Statistics and Probability, Swarthmore College, 2008.

Student Paper Judge, International Biometric Society (WNAS) Annual Meeting, 2005.

Proposal Review Panel Member, National Science Foundation (twice).

Proposal and Project Reviewer for National Science Foundation, National Research Council, Census Bureau Center for Economic Studies, Agency for Healthcare Research and Quality DEcIDE program, Statistics New Zealand, Mathematics of Information Technology and Complex Systems Network of Centres of Excellence (Canada).

Referee. Journals include *American Journal of Epidemiology*; *American Political Science Review*; *Annals of Applied Statistics*; *Biometrical Journal*; *Biometrics*; *Biometrika*; *BMC Medical Research Methodology*; *Computational Statistics and Data Analysis*; *Data and Knowledge Engineering*; *Demography*; *Epidemiology*; *Health Services and Outcomes Research Methodology*; *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*; *Journal of the American Statistical Association*; *Journal of Computational and Graphical Statistics*; *Journal of Official Statistics*; *Journal of Privacy and Confidentiality*; *Journal of Probability and Statistics*; *Journal of Quantitative Analysis in Sports*; *Journal of the Royal Statistical Society Series A*; *Journal of Statistical Planning and Inference*; *Journal of Statistical Theory and Practice*; *Journal of Statistics Education*; *Management Science*; *Marketing Science*; *Metron*; *PLoS One*; *Psychological Methods*; *Statistical Methodology*; *Public Opinion Quarterly*; *Sociological Methods and Research*; *Statistical Science*; *Statistics and Computing*; *Statistics in Medicine*; *Survey Methodology*; *The American Statistician*; *The Stata Journal*; *Transactions on Data Privacy*; *Transactions on Knowledge Discovery from Data*.

## **UNIVERSITY SERVICE**

Social Science Research Institute Planning Committee, 2012 - present

Provost's Informational Futures Committee, 2012 - present.

Masters Degree Coordinator, Department of Statistical Science, 2011 - present.

Bass Chairs Selection Committee, 2011 - present.

Arts & Sciences Faculty Assessment Committee, 2011 - present.

Duke Initiative on Survey Methods Advisory Board, 2010 - present.

Triangle Census Research Data Center Advisory Board, 2010 - present.

Social Sciences Research Institute Data Services Core Director, 2010 - present.

Program for Advanced Research in the Social Sciences Advisory Board, 2004 - present.

Academic Council Representative, 2007 - 2009, 2012 - present.

Social Sciences Research Institute Steering Committee Member, 2009 - 2011.

Committee on Revising the Quantitative Studies Requirement, 2010 - 2011.

Arts & Sciences Council Representative, 2004 - 2007.

Undergraduate Pre-Major Advisor, 2003 - 2007.

Director of Undergraduate Studies, Institute of Statistics and Decision Sciences, 2002 - 2006.

Task Force on Data Analysis in the Social Sciences, 2005.

Task Force on Program in Data Analysis and Computation, 2005.

Presenter, Duke Faculty Forum on Teaching and Technology, 2012; Duke Up Close, 2005, 2006, 2008; Duke School Days, 2004, 2005, 2008, 2010; Duke Family Days, 2007; Duke Homecoming Academic Program, 2007; Duke NC-SC Open House, 2007, 2008; Duke Founders' Day Recognition Celebration, 2007; Jacksonville Duke Alumni Association, 2008.

## **STUDENTS AND OTHER ADVISEES**

Habilitation Committee Member

Joerg Drechsler, University of Munich, Germany, 2011 - present.

Postdoctoral Associate Mentor

Daniel Manrique-Vallier, 2010 - present; Lane Burgette, 2009 - 2011.

Ph.D. Dissertation Committee Advisor

Jared Murray, expected 2013.

Yajuan Si, expected 2012.

Scott Schwartz, "Bayesian Mixture Modeling Approaches for Intermediate Variables and Causal Inference," 2010 (co-advisor).

Robin Mitra, "Bayesian Methods to Impute Missing Covariates for Causal Inference and Model Selection," 2008.

Satkartar Kinney, "Model Selection and Multivariate Inference Using Data Multiply Imputed for Disclosure Limitation and Nonresponse," 2007.

Christine Kohonen, "Using Multiply Imputed, Synthetic Data to Facilitate Data Sharing," 2005.

Ph.D. Dissertation Committee Member

Ann-Sophie Charest (Statistics, Carnegie Mellon University), Lenka Bustikova (Political Science), in progress; Simone Gray, Hao Wang, 2010; Chunlin Ji, 2009; Joyee Ghosh, Liang Zhang, 2008.

Masters Thesis Committee Member

Yiting Deng, Fuqua School of Business (chair), Melissa Tosiano, Integrated Environmental Health and Toxicology Program, ongoing; Arturas Rozenas, Political Science, 2010 (chair); Jacob Montgomery, Political Science, 2009 (chair).

#### Preliminary Examination Committee Member

David McClure, Jared Murray, 2011; Lynn Lin, Yajuan Si, 2010; Chunlin Ji, Scott Schwartz, Hao Wang, 2008; Simone Gray, 2007; Joyee Ghosh, Robin Mitra, Liang Zhang, 2006; Eric Vance, 2005; Rosy Lou, 2004.

#### Undergraduate Research Advisor

Statistical science majors: Drew Cannon, expected 2012; Siyu Zheng, 2011; Michael Lyngaas, 2010.

Honors thesis committees: Ana-Maria Tenekedjieva, 2012; Derrick Hang, 2011; Jane Zhu, Program II, 2007 (chair); Tyler McCormick, Program II, 2005 (chair).

Independent studies: Christine Cheng, 2012; Gregory Caiola, 2009; Joshua Koster, 2008; Stephanie Guan, 2005; Orcun Unlu, 2005.

### **TEACHING EXPERIENCE**

- “Bayesian and Modern Data Analysis,” Duke, Spring 2011, Fall 2011, Spring 2012.
- “Undergraduate Research Seminar in Statistical Science,” Duke, Spring 2011.
- “Bayesian Approaches to Survey Sampling,” Duke, Spring 2010.
- “Fundamentals of Modern Statistical Modeling,” Duke, Spring 2009.
- “Statistical Analysis with Missing Data,” Duke, Fall 2008.
- “Design and Analysis of Surveys,” Duke, Spring 2008, Spring 2010.
- “Regression Analysis,” Duke, Fall 2006.
- “Data Analysis for Undergraduate Research,” Duke, Spring 2006.
- “Probability and Statistical Inference,” Duke, Fall 2004, Spring 2004, Fall 2005, Spring 2007.
- “Complex Surveys and Missing Data Methods,” Duke, Fall 2003.
- “Data Analysis and Statistical Inference,” Duke, Fall 2002, Spring 2003, Fall 2003, Fall 2008.
- “Seminar and Projects in Statistical Consulting,” UCSB, Spring 2002.
- “Actuarial Statistics II,” UCSB, Spring 2002.
- “Actuarial Statistics I,” UCSB, Winter 2001.
- “Mathematics of Compound Interest,” UCSB, Fall 2001.
- “General Statistics,” UCSB, Fall 2001, Winter 2001.
- “Statistics and Data Analysis,” Williams, Spring 2000, Spring 2001.
- “Regression and Forecasting,” Williams, Fall 2000.
- “The Mathematics and Statistics of Surveys,” Williams, Fall 1999.
- “Elementary Statistics and Data Analysis,” Williams, Fall 1999.

## PEER-REVIEWED PUBLICATIONS

1. Burgette, L. F. and Reiter, J. P. (forthcoming), “Modeling adverse birth outcomes via confirmatory factor quantile regressions,” *Biometrics*.
2. Burgette L. F. and Reiter, J. P. (forthcoming) “Nonparametric Bayesian multiple imputation for missing data due to mid-study switching of measurement methods,” *Journal of the American Statistical Association*.
3. Drechsler, J. and Reiter, J. P. (forthcoming), “Combining synthetic data with subsampling to create public use microdata files for large scale surveys,” *Survey Methodology*.
4. Ghosh, J. and Reiter, J. P. (forthcoming), “Secure Bayesian model averaging for horizontally partitioned data,” *Statistics and Computing*.
5. McClure, D. and Reiter, J. P. (forthcoming) “Towards providing automated feedback on the quality of inferences from synthetic datasets,” *Journal of Privacy and Confidentiality*.
6. Mitra, R. and Reiter, J. P. (forthcoming) “A comparison of two methods of estimating propensity scores after multiple imputation,” *Statistical Methods in Medical Research*.
7. Schwartz, S., Li, F., and Reiter, J. P. (forthcoming), “Sensitivity analysis for unmeasured confounding in principal stratification,” *Statistics in Medicine*.
8. Wang, H. and Reiter, J. P. (forthcoming), “Multiple imputation for sharing precise geographies in public use data,” *Annals of Applied Statistics*.
9. Orr, S. T., Reiter, J. P., James, S. A., and Orr, C. A. (2012), “Maternal health prior to pregnancy and preterm birth among urban, low income black women in Baltimore: The Baltimore Preterm Birth Study.” *Ethnicity and Disease*, 22, 85 - 89.
10. Reiter, J. P. (2012), “Bayesian finite population imputation for data fusion,” *Statistica Sinica*, 22, 795 - 811.
11. Reiter, J. P. (2012), “Statistical approaches to protecting confidentiality for microdata and their effects on the quality of statistical inferences,” *Public Opinion Quarterly*, 76, 163 - 181.
12. Burgette, L., Reiter, J. P., and Miranda, M. L. (2011), “Exploratory quantile regression with many covariates: An application to adverse birth outcomes,” *Epidemiology*, 22, 859 - 866.
13. Drechsler, J. and Reiter, J. P. (2011), “An empirical evaluation of easily implemented, non-parametric methods for generating synthetic datasets,” *Computational Statistics and Data Analysis*, 55, 3232 - 3243.
14. Kinney, S. K., Reiter, J. P., Reznick, A. P., Miranda, J., Jarmin, R. S., and Abowd, J. M. (2011) “Towards unrestricted public use business microdata: The synthetic Longitudinal Business Database,” *International Statistical Review*, 79, 363 - 384.
15. Mitra, R. and Reiter, J. P. (2011) “Estimating propensity scores with missing covariate data using general location mixture models,” *Statistics in Medicine*, 30, 627 - 641.
16. Petrin, A., Reiter, J. P., and White, T. K. (2011), “The impact of plant-level resource reallocations and technical progress on U.S. macroeconomic growth,” *Review of Economic Dynamics*, 14, 3 - 26. Also published as NBER Working Paper No. 16700.

17. Reiter, J. P. (2011), "Data confidentiality," *Wiley Interdisciplinary Reviews: Computational Statistics*, 3, 450 - 456.
18. Reiter, J. P. and Kinney, S. K. (2011), "Sharing confidential data for research purposes: A primer [invited commentary]," *Epidemiology*, 22, 632 - 635.
19. Schwartz-Bloom, R. D., Halpin, M. J., and Reiter, J. P. (2011), "Teaching high school chemistry in the context of pharmacology helps both teachers and students learn," *Journal of Chemical Education*, 88, 744 - 750.
20. Si, Y. and Reiter, J. P. (2011), "A comparison of posterior simulation and inference by combining rules for multiple imputation," *Journal of Statistical Theory and Practice*, 5, 335 - 347.
21. Burgette, L. and Reiter, J. P. (2010), "Multiple imputation via sequential regression trees," *American Journal of Epidemiology*, 172, 1070 - 1076.
22. Cailoa, G. and Reiter, J. P. (2010), "Random forests for generating partially synthetic, categorical data," *Transactions on Data Privacy*, 3:1, 27 - 42.
23. Drechsler, J. and Reiter, J. P. (2010), "Sampling with synthesis: A new approach to releasing public use microdata samples of census data," *Journal of the American Statistical Association*, 105, 1347 - 1357.
24. Kinney, S. K. and Reiter, J. P. (2010), "Tests of multivariate hypotheses when using multiple imputation for missing data and disclosure limitation," *Journal of Official Statistics*, 26, 301 - 315.
25. Kinney, S., Reiter, J. P., and Berger, J. O. (2010) "Model selection when multiple imputation is used to protect confidentiality in public use data," *Journal of Privacy and Confidentiality*, 2, Article 2.
26. Reiter, J. P. (2010), "Multiple imputation for disclosure limitation: Future research challenges," *Journal of Privacy and Confidentiality*, 1:2, Article 7.
27. Reiter, J. P. and Drechsler, J. (2010), "Releasing multiply-imputed, synthetic data generated in two stages to protect confidentiality," *Statistica Sinica*, 20, 405 - 422.
28. Zhou, X. and Reiter, J. P. (2010) "A note on Bayesian inference after multiple imputation," *The American Statistician*, 64, 159 - 163.
29. Drechsler, J. and Reiter, J. P. (2009) "Disclosure risk and data utility for partially synthetic data: An empirical study using the German IAB Establishment Survey," *Journal of Official Statistics*, 25, 589 - 603.
30. Karr, A. F., Lin, X., Reiter, J. P. and Sanil, A. P. (2009), "Privacy preserving analysis of vertically partitioned data using secure matrix protocols," *Journal of Official Statistics*, 25, 125 - 138.
31. Kinney, S. K. and Reiter, J. P. (2009), "Inferences for two stage multiple imputation for nonresponse," *Journal of Statistical Theory and Practice*, 3, 307 - 318.
32. Kohnen, C. N. and Reiter, J. P. (2009) "Multiple imputation for combining confidential data owned by two agencies," *Journal of the Royal Statistical Society, Series A*, 172, 511 - 528.

33. Marchenko, Y. V. and Reiter, J. P. (2009) "Improved degrees of freedom for multivariate significance tests obtained from multiply-imputed, small sample data," *The Stata Journal*, 9, 388 - 397.
34. Miranda, M. L., Kim, D., Reiter, J. P., Overstreet, M. A., Maxson, P. (2009) "Environmental contributors to the achievement gap," *NeuroToxicology*, 30, 1019 - 1024.
35. Reiter, J. P. (2009) "Using multiple imputation to integrate and disseminate confidential microdata," *International Statistical Review*, 77, 179 - 195.
36. Reiter J. P., Oganian A., and Karr A. F. (2009), "Verification servers: enabling analysts to assess the quality of inferences from public use data," *Computational Statistics and Data Analysis*, 53, 1475 - 1482.
37. Reiter, J. P. and Mitra, R. (2009), "Estimating risks of identification disclosure in partially synthetic data," *Journal of Privacy and Confidentiality*, 1.1, 99 - 110.
38. Woo, M., Reiter, J. P., Oganian, A., and Karr, A. F. (2009), "Global measures of data utility for microdata masked for disclosure limitation," *Journal of Privacy and Confidentiality*, 1.1, 111 - 124.
39. Montgomery, J. M., Cooper, A., Reiter, J. P., and Guan, S. (2008), "A comparison of respondents and non-respondents on dimensions of political activity," *International Journal of Public Opinion Research*, 20, 494 - 506.
40. Orr, S. T., James, S. A., and Reiter, J. P. (2008), "Unintended pregnancy and prenatal behaviors among urban, black women in Baltimore, Maryland: The Baltimore preterm birth study," *Annals of Epidemiology*, 18, 545 - 551.
41. Reiter, J. P. (2008), "Multiple imputation when records used for imputation are not used or disseminated for analysis," *Biometrika*, 95, 933 - 946.
42. Reiter, J. P. (2008), "Selecting the number of imputed datasets when using multiple imputation for missing data and disclosure limitation," *Statistics and Probability Letters*, 78, 15 - 20.
43. Reiter, J. P. (2008), "Statistics in sports: Current and future research trends," *STAtOR*, 9:2, 4 - 7.
44. Woo, M., Reiter, J. P., and Karr A. F. (2008), "Estimation of propensity scores using generalized additive models," *Statistics in Medicine*, 27, 3805 - 3816.
45. Dolber, P. C., Gu, B., Zhang, X., Fraser, M. O., Thor, K. B., and Reiter, J. P. (2007), "Activation of the external urethral sphincter central pattern generator by a 5-HT1A serotonin receptor agonist in rats with chronic spinal cord injury," *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology*, 292, R1699 - R1706.
46. Ghosh, J., Reiter, J. P., and Karr, A. F. (2007), "Secure computation with horizontally partitioned data using adaptive regression splines," *Computational Statistics and Data Analysis*, 51, 5813 - 5820.
47. Gu, B., Thor, K. B., Reiter, J. P., and Dolber, P. C. (2007), "Effect of 5HT-1 serotonin receptor agonists on noxiously stimulated micturition in cats with chronic spinal cord injury," *Journal of Urology*, 177, 2381 - 2385.

48. Karr, A. F., Fulp, W. J., Vera, F., Young, S. S., Lin, X., and Reiter, J. P. (2007), "Secure privacy-preserving analysis of distributed databases," *Technometrics*, 49, 335 - 345.
49. Kwiek, N. C., Halpin, M. J., Reiter, J. P., Hoeffler, L. A., and Schwartz-Bloom, R. D. (2007) "Pharmacology in the high school classroom," *Science*, 317 (September 2007), 1871 - 1872 (with supplemental material).
50. Orr, S. T., Blazer, D. G., James, S. A., and Reiter, J. P. (2007), "Depressive symptoms and indicators of maternal health status during pregnancy," *Journal of Women's Health*, 16, 535 - 542.
51. Orr, S. T., Reiter, J. P., Blazer, D. G., and James, S. A. (2007), "Maternal prenatal pregnancy-related anxiety and spontaneous preterm birth in Baltimore, Maryland," *Psychosomatic Medicine*, 69, 566 - 570.
52. Reiter, J. P. (2007), "Small-sample degrees of freedom for multi-component significance tests with multiple imputation for missing data," *Biometrika*, 94, 502 - 508.
53. Reiter, J. P. and Raghunathan, T. E. (2007), "The multiple adaptations of multiple imputation," *Journal of the American Statistical Association*, 102, 1462 - 1471.
54. Hill, J. L. and Reiter, J. P. (2006), "Interval estimation of treatment effects when using propensity score matching," *Statistics in Medicine*, 25:13, 2230 - 2256.
55. Karr, A. F., Kohnen, C. N., Oganian, A., Reiter, J. P. and Sanil, A. P. (2006), "A framework for evaluating the utility of data altered to protect confidentiality," *The American Statistician*, 60, 224 - 232.
56. Reiter, J. P., Raghunathan, T. E., and Kinney, S. (2006), "The importance of the sampling design in multiple imputation for missing data," *Survey Methodology*, 32.2, 143 - 150.
57. Gomatam, S., Karr, A. F., Reiter, J. P., and 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.
58. Karr, A. F., Feng, J., Lin, X., Sanil, A. P., Young, S. S., and Reiter, J. P. (2005), "Secure analysis of distributed chemical databases without data integration," *Journal of Computer-Aided Molecular Design*, 19, 739 - 747.
59. Karr, A. F., Lin, X., Sanil, A. P., and Reiter, J. P. (2005), "Secure regressions on distributed databases," *Journal of Computational and Graphical Statistics*, 14, 263 - 279.
60. Reiter, J. P. (2005), "Estimating risks of identification disclosure for microdata," *Journal of the American Statistical Association*, 100, 1103 - 1113.
61. 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.
62. Reiter, J. P. (2005), "Significance tests for multi-component estimands from multiply-imputed, synthetic microdata," *Journal of Statistical Planning and Inference*, 131 (2), 365 - 377.
63. Reiter, J. P. (2005), "Using CART to generate partially synthetic public use microdata," *Journal of Official Statistics*, 21, 441 - 462.

64. Reiter, J. P. and Kohnen, C. N. (2005), "Categorical data regression diagnostics for remote servers," *Journal of Statistical Computation and Simulation*, 75, 889 - 903.
65. Reiter, J. P., Zanutto, E. L., and Hunter, L. W. (2005), "Analytical modeling in complex surveys of work practices," *Industrial Labor Relations Review*, 89, 82 - 100.
66. Gu, B., Olejar, K., Reiter, J. P., Thor, K. B., and Dolber, P. C. (2004), "Inhibition of bladder activity by 5HT1 serotonin receptor antagonists in cats with chronic spinal cord injury," *Journal of Pharmacology and Experimental Therapeutics*, 310:3, 1266 - 1272.
67. Gu, B., Reiter, J. P., Schwinn, D. A., Smith, M. P., Korstanje, C., Thor, K. B., and Dolber, P. C. (2004), "Effects of alpha1-adrenergic receptor subtype selective antagonists on lower urinary tract function in rats with bladder outlet obstruction," *Journal of Urology*, 172, 758 - 762.
68. Karr, A. F., Lin, X., Sanil, A. P., and Reiter, J. P. (2004), "Analysis of integrated data without data integration," *Chance*, 17:3 (Summer 2004), 27 - 30.
69. Reiter, J. P. (2004), "New approaches to data dissemination: A glimpse into the future," *Chance*, 17:3 (Summer 2004), 12 - 16.
70. Reiter, J. P. (2004), "Should teams walk or pitch to Barry Bonds?" *Baseball Research Journal*, 32, 63 - 69.
71. Reiter, J. P. (2004), "Simultaneous use of multiple imputation for missing data and disclosure limitation," *Survey Methodology*, 30, 235 - 242.
72. Sanil, A. P., Karr, A. F., Lin, X., and Reiter, J. P. (2004), "Privacy preserving regression modeling via distributed computation," *Proceedings of the Tenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 677 - 682.
73. Raghunathan, T. E., Reiter, J. P., and Rubin, D. B. (2003), "Multiple imputation for statistical disclosure limitation," *Journal of Official Statistics*, 19, 1 - 16.
74. Reiter, J. P. (2003), "Inference for partially synthetic, public-use microdata sets," *Survey Methodology*, 29, 181 - 188.
75. Reiter, J. P. (2003), "Model diagnostics for remote access regression servers," *Statistics and Computing*, 13, 371 - 380.
76. Reiter, J. P. (2002), "Satisfying disclosure restrictions with synthetic data sets," *Journal of Official Statistics*, 18, 531 - 544.
77. Reiter, J. P. (2000), "Borrowing strength when explicit data pooling is prohibited," *Journal of Official Statistics*, 16, 295 - 319.
78. Reiter, J. P. (2000), "Using statistics to determine causal relationships," *The American Mathematical Monthly*, 107, 24 - 32.

#### **BOOK CHAPTERS AND INVITED PUBLICATIONS**

79. Reiter, J. P. (2012), "Statistical disclosure limitation research and practice: Fascinating and growing areas of importance." *CHANCE*, vol. 25:1.

80. Reiter, J. P. (2011), "Commentary on article by Gates," *Journal of Privacy and Confidentiality*, vol 3:2.
81. Reiter, J. P. (2011), "Statistical approaches to protecting confidentiality in public use data," *International Encyclopedia of Statistical Science*, edited by M. Lovric, Springer, 1386 - 1388. Reprinted online in *StatProb: The Encyclopedia Sponsored by Statistics and Probability Societies*.
82. Reiter, J. P. (2008), "Protecting data confidentiality in public release datasets: Approaches based on multiple imputation," *The Imputation Bulletin*, 8:2, 1 - 6.
83. Drechsler, J. and Reiter, J. P. (2008), "Accounting for intruder uncertainty due to sampling when estimating identification disclosure risks in partially synthetic data," *Privacy in Statistical Databases (Lecture Notes in Computer Science 5262)*, edited by J. Domingo-Ferrer and Y. Saygin, 227 - 238.
84. Reiter, J. P. (2007), "Survey error," *Encyclopedia of Statistics in Quality and Reliability*, edited by F. Ruggeri, R. Kennett, and F. W. Faltin, Chichester, UK: John Wiley & Sons, 1952 - 1954.
85. Karr, A. F., Lin, X., Reiter, J. P., and Sanil, A. P. (2006), "Methods of secure computation and data integration," *Monographs of Official Statistics: Worksession on Statistical Data Confidentiality*, edited by P. Diaz Munoz and H. Brungger, Eurostat, 217 - 226.
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88. Reiter, J. P. (2006), "Multiple imputation for missing data," *Encyclopedia of Measurement and Statistics*, edited by N. Salkind, Sage Publications..
89. Banks, D. and Reiter, J. P. (2005), "Confidentiality issues related to transportation use of census data for transportation planning: Preparing for the future," commissioned paper for the Transportation Research Board.
90. Hill, J. L., Reiter, J. P., Zanutto, E. (2004), "A comparison of experimental and observational data analyses," *Applied Bayesian Modeling and Causal Inference from Incomplete-Data Perspectives*, edited by A. Gelman and X. Meng, New York: Wiley, 49 - 60.
91. Reiter, J. P. (2003), "Estimating probabilities of identification for microdata," commissioned paper for the National Academy of Sciences Panel on Confidential Data Access for Research Purposes.
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## OTHER PUBLICATIONS

93. Reiter, J. P. (2012), Book review of “Bayesian Ideas and Data Analysis,” *The American Statistician*, forthcoming.
94. National Research Council (2010), *Conducting Biosocial Surveys: Collecting, Storing, Accessing, and Protecting Biospecimens and Biodata*, edited by R. Hauser, M. Weinstein, R. Pool, and B. Cohen, Panel on Collecting, Storing, Accessing, and Protecting Biological Specimens and Biodata in Social Surveys, National Academies Press. (Contributing author.)
95. National Research Council (2009), *Reengineering the Survey of Income and Program Participation*, edited by C. Citro and J. Scholz, Panel on the Census Bureau’s Reengineered Survey of Income and Program Participation, National Academies Press. (Contributing author.)
96. Reiter, J. P. (2008), “Letter to the editor,” *Journal of Official Statistics*, 24, 319 - 320.
97. Reiter, J. P. (2008), Book review of “Data Quality and Record Linkage Techniques,” *Journal of the American Statistical Association*, 103, 881.
98. Kohnen, C. N. and Reiter, J. P. (2007), ”Manual for JMP-IN.” Accompanies *Mind on Statistics: Third Edition* by J. Utts and R. Heckard.
99. National Research Council (2007), *Putting People on the Map*, edited by M. Gutman and P. Stern, Panel on Confidentiality Issues Arising From the Integration of Remotely-Sensed and Self-Identifying Data, National Academies Press. (Contributing author.)
100. Reiter, J. P. (2007), Book review of “Statistical Matching: Theory and Practice,” *Journal of Official Statistics*, 23, 130 - 132.
101. Reiter, J. P. (2006), “Teaching the fundamentals of statistics with sports data,” *Proceedings of the International Conference on Teaching Statistics*.
102. Stangl, D., Banks, D., House, L., and Reiter, J. P. (2006), “Progressive mastery testing: Does it increase learning and retentions? Yes and no,” *Proceedings of the International Conference on Teaching Statistics*.
103. Reiter, J. P. (2005), “Bayesian methods in statistical disclosure limitation,” *ISBA Bulletin*, 12(4), 6.
104. Biemer, P. and Reiter, J. P. (2005), “Total survey error workshop,” *Newsletter of the ASA Survey Research Methods Section*, 21 (July), 2 - 3.
105. Kohnen, C. N. and Reiter, J. P. (2004), “Sharing confidential data among multiple agencies using multiply imputed, synthetic data,” *ASA Proceedings of the Joint Statistical Meetings*.
106. Reiter, J. P. (2004), “One question interview: Walking Barry Bonds,” *Duke Dialogue*, 19:5 (May 28, 2004), 7.
107. Reiter, J. P. (2004), Book review of “Teaching Statistics Using Baseball,” *INFORMS Transactions on Education*, 5 (Sept. 2004).
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110. Reiter, J. P. (2003), "Using CART to generate partially synthetic, public use microdata," *Proceedings of the Federal Committee on Statistical Methodology Research Conference*.
111. Reiter, J. P. and Kohnen, C. N. (2003), "Generalized linear model diagnostics for remote servers," *Proceedings of the Association for Survey Computing Conference*, 2003.
112. Reiter, J. P. (2002), Book reviews of "Finite Population Sampling and Inference: A Prediction Approach" and of "Topics in Survey Sampling," *Journal of the American Statistical Association*, 97, 357 - 358.
113. Reiter, J. P. (2002), Book review of "Fundamentals of Modern Statistical Methods," *Journal of Official Statistics*, 18, 313 - 315.
114. Reiter, J. P. (2002), "Should teams walk or pitch to Barry Bonds?" *By the Numbers*, 12 (November 2002), pp. 7-11. (Newsletter of the Statistical Analysis Committee of the Society for American Baseball Research).
115. Reiter, J. P. (2001), "Using synthetic data sets to satisfy disclosure restrictions," *Proceedings of the Federal Committee on Statistical Methodology Research Conference*.
116. Reiter, J. P. (2001), "Motivating students' interest in statistics through sports," *ASA Proceedings of the Joint Statistical Meetings*.
117. Reiter, J. P. (2000), "Satisfying disclosure restrictions with synthetic data sets," *ASA Proceedings of the Section on Government Statistics and Section on Social Statistics*, 276 - 281.
118. Reiter, J. P. (1999), "Stimulating interest in quantitative courses with activity-based lessons," in *Voices of Experience*, edited by M. Winkelmes and J. Wilkinson, Derek Bok Center for Teaching and Learning, Harvard University, 47 - 54.
119. Reiter, J. P. (1998), "Estimation in the presence of external constraints that prohibit explicit data pooling," *ASA Proceedings of the Section on Survey Research Methods*, 599 - 604.

## **MANUSCRIPTS UNDER REVIEW**

Burgette, L. and Reiter, J. P. "Multiple-shrinkage multinomial probit models with applications to simulating geographies in public use data," submitted to *Bayesian Analysis*.

McClure, D. and Reiter, J. P. "Differential privacy and statistical disclosure risk measures," submitted to *Transactions on Data Privacy*.

Manrique-Vallier, D. and Reiter, J. P. "Estimating identification disclosure risk using mixed membership models," submitted to *Journal of the American Statistical Association*.

Reiter, J. P. and Kinney, S. K. "Inferentially valid, partially synthetic data: Generating from posterior predictive distributions not necessary," submitted to *Journal of Official Statistics*.

White, T. K., Reiter, J. P. and Petrin, A. "Plant-level productivity and imputation of missing data in U.S. Census manufacturing data," submitted to *Review of Economics and Statistics*.

## INVITED PRESENTATIONS AT PROFESSIONAL CONFERENCES

“Adapting multiple imputation to protect confidentiality,” International Chinese Statistical Association Applied Statistics Symposium, Indianapolis, June 2010.

“Statistical methods for disclosure risk assessment,” Office of Civil Rights Workshop on Reconsidering the HIPAA De-identification Standard, Washington DC, March 2010.

“Reconciling measures of confidentiality risk from statistics and computer science,” IPAM workshop on Privacy and Statistical Learning, UCLA, February 2010.

“Using multiple imputation to protect participants’ confidentiality when sharing data,” International Conference on Health Policy Statistics, Washington DC, January 2010.

“Easily implemented, nonparametric synthesizers based on algorithmic methods from computer science,” NSF-Census-IRS workshop on synthetic data and confidentiality protection, Washington, DC, July 2009.

“Multiple imputation when some records used for imputation are not used or disseminated for analysis,” Conference on Sample Surveys and Bayesian Statistics, Southampton, England, August 2008.

“Synthetic data methods: A discussion of the most pressing challenges,” Joint Meeting of the Statistical Society of Canada, May 2008.

“The future of synthetic data,” NISS workshop on Data Confidentiality: The Next Five Years, Washington DC, May 2008.

“Evaluating the disclosure risks of reporting quality measures to the public,” United Nations Economic Commission for Europe workshop on data confidentiality, Manchester, England, December 2007.

“Using two stage multiple imputation to correct measurement error with external validation data,” International Statistical Institute meetings, Lisbon, Portugal, August 2007.

“The risks and benefits of releasing measures of data quality,” Workshop on Data Access, Nuremberg Germany, August 2007.

“Protecting confidentiality in public use data by releasing synthetic datasets: Experiences with genuine applications,” invited panel, Joint Statistical Meetings, Salt Lake City, August 2007.

“Alternative approaches to data dissemination,” Population Association of America conference, New York, March 2007.

“Using multiple imputation for data integration and dissemination,” Workshop on Combining and Enhancing Data, Manchester, UK, January 2007.

“Adjusting survey weights when using partially synthetic data,” Privacy in Statistical Databases conference, Rome, Italy, December 2006.

“Making public use, synthetic files of longitudinal establishment data,” Comparative Analysis of Enterprise Data conference, Washington, DC, September 2006.

“Using multiple imputation to handle missing data and disclosure limitation,” invited talk, Workshop on data confidentiality, Nurnberg, Germany, August 2006.

“Can and should we teach Bayesian statistics in Stat 101?” roundtable coffee, Joint Statistical Meetings, August 2006.

“Discussion of session on statistical disclosure limitation,” Joint Statistical Meetings, August 2006.

“Identification disclosure in social science research,” Data Sharing Workshop for Behavioral and Social Studies that Collect Genetic Data, National Institute on Aging, August 2006.

“Teaching the fundamentals of statistics with sports data,” International Conference on Teaching Statistics, Brazil, July 2006.

“Alternative approaches to data dissemination and data sharing,” Conference on Quantitative Methods and Statistical Applications in Defense and National Security, RAND, February 2006.

“Methods for secure computation and data integration,” United Nations Economic Commission for Europe Workshop on Data Confidentiality, Geneva, Switzerland, November 2005.

“Some approaches and challenges in secure statistical analysis,” Statistical and Applied Mathematical Sciences Institute Workshop on National Defense and Homeland Security, September 2005.

“Methods for secure computation and data integration,” Joint Statistical Meetings, Minneapolis, August 2005.

“Generating partially synthetic data when there are missing data,” Computer Science-Statistics Workshop on Privacy and Confidentiality, Italy, July 2005.

“Discussion of the National Election Surveys: The potential of multiple imputation,” panel, Social Science Research Institute, Duke University, January 2005.

“Disclosure limitation via synthetic, multiply-imputed data sets,” International Conference on the Future of Statistical Theory, Practice and Education, Hyderabad, India, December 2004.

“Disclosure limitation via synthetic, multiply-imputed data sets,” Research Triangle Institute Fellows Symposium, Durham, NC, December 2004.

“Multiple imputation for missing data in surveys with complex designs,” Statistical and Applied Mathematical Sciences Institute Workshop on Latent Variables in the Social Sciences, September 2004.

“Disclosure risk and data utility for remote access servers,” Joint Statistical Meetings, Toronto, August 2004.

“Disclosure limitation via synthetic, multiply-imputed data sets.” International Indian Statistical Association conference, University of Georgia, May 2004.

“Data confidentiality, data integration, and secure computation,” Electronic Frontier Foundation panel, National Institute of Statistical Sciences, April 2004

“Disclosure limitation via partially synthetic, multiply-imputed data sets,” International Biometric Society (ENAR) Annual Meeting, Pittsburgh, March 2004.

“Is it better to walk or pitch to Barry Bonds?” Institute of Mathematical Statistics Meeting on Statistics and Sports, Worcester Polytechnic Institute, November 2003.

“Disclosure limitation by releasing multiply imputed, public-use microdata,” New Researchers Conference, Davis, CA., July 2003.

“Estimating probabilities of identification for microdata,” National Academy of Sciences Panel on Data Access workshop, Washington DC, October 2003.

“Borrowing strength without explicit data pooling,” International Society for Bayesian Analysis Conference, Greece, June 2000.

## **OTHER PRESENTATIONS**

“Protecting confidentiality in public use data with geographic identifiers,” National Cancer Institute, August 2011.

“Some novel adaptations of multiple imputations,” Department of Mathematics and Statistics, University of Maryland–Baltimore County, November 2010.

“Understanding synthetic data,” short course, Centre for Census and Survey Research, University of Manchester, UK, October 2010.

“Some novel adaptations of multiple imputation,” Centre for Census and Survey Research, University of Manchester, UK, October 2010.

“Sampling with synthesis: A new approach to releasing public use microdata samples of census data,” Summer at Census talk, U. S. Bureau of the Census, Washington, DC., July 2010.

“Novel adaptations of multiple imputations,” Department of Statistics, The Ohio State University, May 2010.

“Measuring disclosure risks in statistical databases,” Westat, March 2010.

“Handling missing data with multiple imputation: A primer for quantitative social scientists,” Quantitative Psychology Program, UNC Chapel Hill, September 2009.

“Issues in disclosure risk assessment for tabular data,” CNSTAT workshop on confidentiality criteria for statistics from the NSF Survey of Earned Doctorates, National Academy of Sciences, May 2009.

“Multiple imputation when some records used for imputation are not used or disseminated for analysis,” Department of Biostatistics, Duke University, December 2008.

“Multiple imputation when some records used for imputation are not used or disseminated for analysis,” Social Science Research Institute, Duke University, September 2008.

“Preserving confidentiality in shared data: A statistician’s perspective,” Department of Computer Science, UNC Chapel Hill, August 2008.

“The multiple adaptations of multiple imputation,” Department of Statistics, University of Wollongong, Australia, August 2008.

“Using multiple imputation to protect confidentiality in public use data,” Australian Bureau of Statistics, July 2008.

“Multiple imputation when some records used for imputation are not used or disseminated for analysis,” Australian Bureau of Statistics, July 2008.

“The multiple adaptations of multiple imputation,” Heinz School, Carnegie Mellon University, March 2008.

“Protecting confidentiality of public use genetic data: What can we learn from the experiences of statistical agencies,” invited talk, Department of Biostatistics, University of Alabama at Birmingham, January 2008.

“The multiple adaptations of multiple imputation,” Center for Statistics in the Social Sciences, University of Washington, November 2007.

“Analysis of missing data in social science research,” short course, Social Sciences Research Institute, Duke University, September 2007, February 2007, April 2006.

“Estimating risks of identification disclosure with partially synthetic data,” Bureau of the Census, Washington DC, June 2007.

“Analysis with missing data,” Center for Health Promotion and Disease Prevention, UNC Chapel Hill, April 2007.

“Using multiple imputation to protect confidentiality in public use data,” Center for Demography and Health of Aging, University of Wisconsin, February 2007.

“Multiple imputation for disclosure limitation: Why don’t Rubin’s 1987 rules apply?” IAB, Nurnberg, Germany, January 2007.

“Discussion of papers on synthetic data,” Washington Statistical Society seminar series, Washington, D.C., November 2006.

“The multiple applications of multiple imputation,” University of Pennsylvania, October 2006.

“Disclosure limitation in microdata using multiple imputation,” National Center for Education Statistics, Washington, D.C., July 2006.

“Disclosure limitation for ACS microdata using multiple imputation,” Bureau of the Census, Washington, D.C., June 2006.

“The multiple applications of multiple imputation,” Department of Statistics, University of South Carolina, April 2006.

“Handling confidentiality concerns with multiple imputation,” University of Southampton, March 2006.

“Handling confidentiality concerns and missing data simultaneously with multiple imputation,” Department of Statistics, Cornell University, February 2006.

“Multiple imputation for disclosure limitation: Why don’t Rubin’s 1987 rules apply,” Center for Economic Studies, U.S. Bureau of the Census, October 2005.

“Disclosure limitation via synthetic, multiply-imputed data sets,” Department of Statistics, Pennsylvania State University, September 2005.

“Are we teaching the right things in introductory statistics,” poster session, U.S. Conference on Teaching Statistics, May 2005.

“Discussion of the National Election Surveys: The potential of multiple imputation,” panel discussion, Social Science Research Institute, Duke University, January 2005.

“What do students retain from introductory statistics: Lessons from a study in statistical education,” Teaching and Learning Club, Duke University, October 2004.

“Disclosure limitation via synthetic, multiply-imputed data sets,” Los Alamos National Labs, August 2004.

“Protecting confidentiality by releasing simulated microdata: An informal discussion of benefits, limitations, and practical experiences,” roundtable luncheon, Joint Statistical Meetings, Toronto, August 2004.

“Disclosure limitation via synthetic, multiply-imputed data sets,” Department of Statistics, Iowa State University, April 2004.

“Protecting confidentiality by releasing synthetic, public-use datasets,” Social Science Research Institute, Duke University, March 2004.

“A primer on designing studies to determine causal effects,” Teaching and Learning Club, Duke University, February 2004.

“Teaching quantitative material,” Center for Teaching, Learning, and Writing Teaching Breakfast, Duke University, February 2004.

“Releasing partially synthetic, public-use microdata to protect confidentiality: An investigation of data generation by CART,” Federal Committee on Statistical Methodology Research Conference, Washington DC, November 2003.

“Protecting confidentiality by releasing synthetic microdata,” INFORMS Annual Meeting, Atlanta, October 2003.

“Model diagnostics for remote access servers,” Association for Survey Computing Conference, Warwick, England, September 2003.

“Inference for multiply-imputed, partially synthetic microdata,” Joint Statistical Meetings, San Francisco, August 2003.

“The feasibility of using synthetic microdata for public release data,” Joint Statistical Meetings, August 2002.

“The feasibility of using synthetic microdata for public release data,” Federal Committee on Statistical Methodology Conference, November 2001.

“Motivating students’ interest in statistics through sports,” Joint Statistical Meetings, August 2001.

“Satisfying disclosure restrictions with synthetic data sets,” U.S. Bureau of the Census, May 2001.

“Satisfying disclosure restrictions with synthetic data sets,” Joint Program in Survey Methodology, April 2001.

“Satisfying disclosure restrictions with synthetic data sets,” Sigma Xi Honor Society Research Lecture, Williams College, April 2001.

“What is Bayesian statistics?” Sigma Xi Honor Society Research Lecture, Williams College, April 2001.

“Borrowing strength without explicit data pooling,” contributed talk, Interface 2000 Conference, New Orleans, April 2000.