June 26, 2013

NATHANIEL SCHENKER

Contact Information

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Education

Ph.D. (Statistics), University of Chicago, August 1985.

S.M. (Statistics), University of Chicago, March 1983.

A.B. (Statistics), Princeton University, June 1979.

Employment

Associate Director for Research and Methodology, National Center for Health Statistics, Centers for Disease Control and Prevention, 2010 – present.

Adjunct Professor, Joint Program in Survey Methodology, University of Maryland, University of Michigan, and Westat, Inc., 2001 – present.

Senior Scientist for Research and Methodology, National Center for Health Statistics, Centers for Disease Control and Prevention, 1999 – 2010.

Member of Faculty, Department of Biostatistics, School of Public Health, University of California, Los Angeles, 1988 – 1999:

- Associate Professor with tenure, 1992 – 1999;
- Vice Chair, 1992 – 1998;
- Assistant Professor, 1988 – 1992;
- Joint appointment (Associate Professor), Department of Biomathematics, School of Medicine, University of California, Los Angeles, 1993 – 1999.

Mathematical Statistician, Statistical Research Division, Bureau of the Census, 1985 – 1988.

Consultant (statistician), RAND, summer and fall of 1982.

Statistician, CNA Insurance Company, summers of 1980 and 1981.

Honors

Founders Award (for distinguished service), American Statistical Association, 2011.

Elijah White Outstanding Scientist Award, National Center for Health Statistics, Centers for Disease Control and Prevention, 2010.

Award for best poster presentation at the 2008 Joint Statistical Meetings, Section on Survey Research Methods, American Statistical Association, for "State and County Small-Area Estimation Using the National Health Interview Survey and the Behavioral Risk Factor Surveillance System" by Van L. Parsons and Nathaniel Schenker, 2008.

Statistical Partnerships among Academe, Industry, and Government (SPAIG) Award, American Statistical Association, awarded to the National Center for Health Statistics and five other organizations for joint project on small-area estimation of the prevalence of cancer risk factors and screening, 2007.

Roger Herriot Award for Innovation in Federal Statistics, American Statistical Association (Section on Government Statistics, Social Statistics Section, and Washington Statistical Society), 2006.

Health Equity Honor Award (group award in the category of Health Equity Programs, Research, and Surveillance), Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry, for developing methods for handling multiple-race data, 2004.

Elected member, International Statistical Institute, 2002.

Distinguished Teaching Award, Public Health Student Association, University of California, Los Angeles, 1997.

Elected Fellow, American Statistical Association, 1995.

Elected member, Delta Omega honorary public health society, 1994.

Award for superior performance, Bureau of the Census, 1987.

Letter of commendation, Professional Skills Development Program, Bureau of the Census, 1987.

Special student award, Department of Statistics, Princeton University, 1979.

Statistical Science Awards, Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry (for full references, see Publications section below):

- Best Applied Paper, 2013 for Zhang et al. (2013), "Identifying Implausible …"
- Best Applied Paper, 2012 for Schenker et al. (2011), "Multiple Imputation …"
- Best Applied Paper, 2008 for Raghunathan et al. (2007), "Combining Information …"
- Best Theoretical Paper, 2003 for Faucett et al. (2002), "Survival Analysis …"
- Best Theoretical Paper, 2002 for Cho et al. (2001), "Survival Analysis …"

Honorable Mentions, Statistical Science Awards, Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry (for full references, see Publications section below):

- Applied Paper category, 2012 for Schenker et al. (2011), "Estimating Standard Errors …"
- Applied Paper category, 2011 for Schenker et al. (2010), "Improving on Analyses …"
- Applied paper category, 2004 for Schenker (2003), "Assessing Variability …"

Director's Awards, National Center for Health Statistics:

- Group award for resolving methodological issues and creating imputations for the National Health and Nutrition Examination Survey body composition data, 2007.
- Group award for creating the National Health Interview Survey imputed income files, 2004.
- Group award for developing a method for bridging between standards for the collection of data on race and ethnicity, 2003.

Nominations for the Charles C. Shepard Science Award, Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry (each nomination was one of two or three that year by the National Center for Health Statistics; for full references, see Publications section below):

- Schenker et al. (2011), "Estimating Standard Errors …," nominated in 2012.
- Schenker et al. (2010), "Improving on Analyses …," nominated in 2011.
- Cai et al. (2007), "Analysis of Functional Status …," nominated in 2007.
- Warner et al. (2005), "The Effects of Recall …," nominated in 2006.
- Schenker and Parker (2003), "From Single-Race Reporting …," nominated in 2004.
- Schenker and Gentleman (2001), "On Judging the Significance …," nominated in 2002.

Offices Held in Professional Societies

President-Elect, American Statistical Association, 2013 (will be President in 2014 and Past President in 2015).

Member, Board of Directors, American Statistical Association, 2004 – 2006, 2008 – 2010, 2013 (will serve through 2015).

Vice President, American Statistical Association, 2008 – 2010.

Member, Council of Sections Governing Board, American Statistical Association, 2004 – 2006.

Member, Executive Committee, Section on Government Statistics, American Statistical Association, 2003 – 2005.

Chair, Section on Government Statistics, American Statistical Association, 2004.

Member, Executive Committee, Survey Research Methods Section, American Statistical Association, 1998 – 1999.

Editorial Work

Member, Editorial Board, *Journal of Survey Statistics and Methodology*, 2012 – present.

Associate Editor, *Survey Methodology*, 2002 – 2012.

Associate Editor, *Journal of Official Statistics*, 2001 – 2012.

Associate Editor for Theory and Methods, *Journal of the American Statistical Association*, 2005 – 2008.

Grant reviewer, National Science Foundation, 1992, 2004, 2007.

Report reviewer, Committee on National Statistics, National Research Council, 1997, 2000.

Associate Editor for Applications and Case Studies, *Journal of the American Statistical Association*, 1990 – 1995.

Editor, special section entitled "Undercount in the 1990 Census," *Journal of the American Statistical Association,* 1993.

Referee, *American Journal of Mathematical and Management Sciences, American Political Science Review*, *Biometrics*, *Biometrika*, *Canadian Journal of Statistics*, *Computational Statistics and Data Analysis*, *Current Anthropology*, *Journal of the American Medical Association*, *Journal of the American Statistical Association, Journal of Business and Economic Statistics*, *Journal of Insect Science*, *Journal of Official Statistics*, *Journal of Statistical Planning and Inference*, *Lifetime Data Analysis*, *Psychological Methods*, *Statistica Sinica*, *Statistical Science*, *Statistics in Medicine*, *Survey Methodology,* and *The American Statistician*.

Conference Planning

Member, Conference on Statistical Practice Organizing Committee, American Statistical Association, 2011.

Member, Ad Hoc Statistical Practice Conference Planning Committee, American Statistical Association, 2009 – 2010.

Member, Morris Hansen Lecture Committee, Washington Statistical Society, 2002 – 2006 (Chair of lecture session, 2004; Chair of Committee, 2005).

Program Chair, Joint Statistical Meetings of the American Statistical Association, Institute of Mathematical Statistics, International Biometric Society (Eastern and Western North American Regions), and Statistical Society of Canada, 2002.

Member, Planning Committee, Eighth Biennial Statistical Methods Symposium, Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry, 2001.

Program Chair, Survey Research Methods Section, American Statistical Association, 1999.

Program Chair, Spring Meeting of the International Biometric Society (Western North American Region), 1994.

Member of organizing committee and master of ceremonies, Southern California Workshop in Applied Statistics, 1989.

Expert Panels, Review Committees, and Workshops

Member, Panel to Review the 2010 Census, Committee on National Statistics, National Research Council, 2009 – present.

Member, Federal Committee on Statistical Methodology, 2009 – present. The FCSM is sponsored by the Office of Management and Budget to improve the quality of federal statistics and the efficiency and effectiveness of statistical practice among federal statistical agencies.

Invited participant in a meeting on sampling paradigms for the National Children's Study, National Institute of Child Health and Human Development, 2012.

Invited participant in a workshop entitled "Censuses and Surveys of Governments: A Workshop on the Research and Methodology Behind the Estimates," Bureau of the Census (hosted by the Council of Professional Associations in Federal Statistics), 2012.

Invited discussant, 2010 Census Coverage Measurement Workshop, Bureau of the Census (organized by the Council of Professional Associations on Federal Statistics), 2009. Provided written and oral discussions of Bureau plans for estimating component errors for the 2010 Census.

Member, Committee of Visitors (program review committee), Methodology, Measurement, and Statistics Program, Division of Social and Economic Sciences, National Science Foundation, 2007.

Member, Matrix Sampling Panel, National Children's Study, 2006 – 2007.

Member, Expert Panel for a study entitled "Study of Survey Sample Loss and Data Matching for Social Security Beneficiaries," Social Security Administration (contracted to Mathematica Policy Research, Inc.), 2006 – 2007.

Member, Technical Review Committee, National Longitudinal Surveys Program, Bureau of Labor Statistics, 2004 – 2006.

Invited participant in the Workshop on Statistical Issues for Counterterrorism in Federal Agencies, Washington Statistical Society (hosted by the National Academy of Sciences), 2002.

Member, Safety Indicators Subgroup, Workshop on Key Transportation Indicators, Committee on National Statistics and Transportation Research Board, National Research Council, 2000. A summary of the workshop was published as National Research Council (2002), *Key Transportation Indicators: Summary of a Workshop*, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, J. Norwood and J. Casey, Eds., Washington, DC: National Academy Press.

Invited participant in a workshop on methodological issues for vital rates and population estimates related to use of 1997 Office of Management and Budget standards for data on race and ethnicity, George Washington University, 2000. A summary of the workshop was published as Durch, J.S., and Madans, J.H. (2001), "Methodological Issues for Vital Rates and Population Estimates: The 1997 OMB Standards for Data on Race and Ethnicity," *Vital and Health Statistics* 4(31), National Center for Health Statistics.

Member, Panel on Alternative Census Methodologies, Committee on National Statistics, National Research Council, 1995 – 1999.

Invited participant in a conference on intercensal population estimates, Bureau of the Census, 1991.

Invited participant in a post-enumeration survey evaluation conference, Bureau of the Census, 1990.

Grants

Co-Investigator, "Cure Models with Covariates," National Cancer Institute, 1997 – 1999, J.M.G. Taylor, Principal Investigator.

Principal Investigator, "Handling Missing Covariates in Analyses of Cancer Data," National Cancer Institute, 1994 – 1999.

Co-Investigator, "Statistical Methods in AIDS Research," National Institute of Allergy and Infectious Diseases, 1993 – 1999, J.M.G. Taylor, Principal Investigator.

Co-Investigator, “Statistical Methodology for Mental Health Research,” National Institute of Mental Health, 1990 – 1993, R.J.A. Little, Principal Investigator.

Principal Investigator, “Methods of Handling Missing Data and Assessing the Variability Due to Missing Data,” Bureau of the Census, 1989 – 1990.

Researcher, “Statistical Software for Mental Health Research,” National Institute of Mental Health, 1988 – 1989, W.J. Dixon, Principal Investigator.

Other Consulting Activities

Consultant to the Center for Health Policy Research, University of California, Los Angeles, on a project to create synthetic estimates of the number of children in local areas who are eligible for subsidized health insurance, 1997 – 1998.

Consultant to RAND on a project to conduct a survey to investigate factors associated with the use of mammography screening, 1994 – 1996.

Consultant to the Bureau of the Census on methods for the 2000 census through a contract with the National Opinion Research Center, 1994 – 1995.

Director, Statistical/Biomathematical Consulting Clinic, Departments of Biomathematics and Biostatistics, University of California, Los Angeles, 1993 – 1995.

Other Professional Activities

Member, Executive Committee, Board of Directors, American Statistical Association, 2010, 2013 (will serve through 2015).

Member, Leadership Support Council, American Statistical Association, 2010, 2013 (Chair in 2013).

Chair, Professional Issues and Visibility Council, American Statistical Association, 2010.

Member, Audit Committee, American Statistical Association, 2010.

Member, Strategic Plan Review Committee, American Statistical Association, 2010.

Member, Budget Committee, Board of Directors, American Statistical Association, 2008 – 2010 (Chair in 2010).

Member, Task Force on Survey Research Methods Publications, Section on Survey Research Methods, American Statistical Association, 2008 – 2009.

Chair, Financial Status-Meetings Work Group, American Statistical Association, 2008 – 2009.

Member, Committee on Committees, American Statistical Association, 2008 – 2009.

Chair, Strategic Activities Review Subcommittee, Board of Directors, American Statistical Association, 2006.

Member, Planning Committee, Board of Directors, American Statistical Association, 2005.

Chair, Joint Statistical Meetings Agreement Implementation Task Force, American Statistical Association, 2004.

Member, Committee on Meetings, American Statistical Association, 2001 – 2003.

Member, Task Force on Electronic Publications, American Statistical Association, 1999 – 2000.

Member, Committee on Publications, American Statistical Association, 1997 – 2000.

Member, Search Committee for Web Editor, American Statistical Association, 1998.

Member, American Statistical Association and Institute of Mathematical Statistics.

Publications

In Journals

Zhang, G., Schenker, N., Parker, J.D., and Liao, D. (2013), "Identifying Implausible Gestational Ages in Pre-Term Babies with Bayesian Mixture Models," *Statistics in Medicine*, 2097-2113.

Schenker, N. (2011), Discussion of "Calibrated Bayes, for Statistics in General, and Missing Data in Particular" by R.J.A. Little, *Statistical Science*, 26, 179-184.

Schenker, N., Parsons, V.L., Lochner, K.A., Wheatcroft, G., and Pamuk, E.R. (2011), "Estimating Standard Errors for Life Expectancies Based on Complex Survey Data with Mortality Follow-Up: A Case Study Using the National Health Interview Survey Linked Mortality Files," *Statistics in Medicine*, 30, 1302-1311.

Schenker, N., Borrud, L.G., Burt, V.L., Curtin, L.R., Flegal, K.M., Hughes, J., Johnson, C.L., Looker, A.C., and Mirel, L. (2011), "Multiple Imputation of Missing Dual-Energy X-Ray Absorptiometry Data in the National Health and Nutrition Examination Survey," *Statistics in Medicine*, 30, 260-276.

Parker, J.D., Liao, D., Schenker, N., and Branum, A. (2010), "The Use of Covariates to Identify Records with Implausible Gestational Ages Using the Birthweight Distribution," *Paediatric and Perinatal Epidemiology*, 24, 424-432.

Davis, W.W., Parsons, V.L., Xie, D., Schenker, N., Town, M., Raghunathan, T.E., and Feuer, E.J. (2010), "State-Based Estimates of Mammography Screening Rates Based on Information from Two Health Surveys," *Public Health Reports*, 125, 567-578.

Schenker, N., Raghunathan, T.E., and Bondarenko, I. (2010), "Improving on Analyses of Self-Reported Data in a Large-Scale Health Survey by Using Information from an Examination-Based Survey," *Statistics in Medicine*, 29, 533-545.

Flegal, K.M., Shepherd, J.A., Looker, A.C., Graubard, B.I., Borrud, L.G., Ogden, C.L., Harris, T.B., Everhart, J.E., and Schenker, N. (2009), "Comparisons of Percentage Body Fat, Body Mass Index, Waist Circumference, and Waist-Stature Ratio in Adults," *American Journal of Clinical Nutrition*, 89, 500-508.

Schenker, N., and Raghunathan, T.E. (2008), Discussion of "Assessing the Value of Bayesian Methods for Inference about Finite Population Quantities" by J. Sedransk, *Journal of Official Statistics*, 24, 507-512.

Cai, L., Schenker, N., Lubitz, J., Diehr, P., Arnold, A., and Fried, L.P. (2008), "Evaluation of a Method for Fitting a Semi-Markov Process Model in the Presence of Left-Censored Spells Using the Cardiovascular Health Study," *Statistics in Medicine*, 27, 5509–5524.

Parker, J.D., and Schenker, N. (2007), "Multiple Imputation for National Public-Use Datasets and Its Possible Application for Gestational Age in United States Natality Files," *Paediatric and Perinatal Epidemiology*, 21, 97-105.

Schenker, N., Monti, K.L., Cobb, G.W., Fecso, R.S., Chmiel, J.S. (2007), "Combining Features of a Frequency Table and a Stem-and-Leaf Plot to Summarize the American Statistical Association's Strategic Activities," *The American Statistician*, 61, 245-247.

Raghunathan, T.E., Xie, D., Schenker, N., Parsons, V.L., Davis, W.W., Dodd, K.W., and Feuer, E.J. (2007), "Combining Information From Two Surveys to Estimate County-Level Prevalence Rates of Cancer Risk Factors and Screening," *Journal of the American Statistical Association*, 102, 474-486.

Schenker, N., and Raghunathan, T.E. (2007), "Combining Information from Multiple Surveys to Enhance Estimation of Measures of Health," *Statistics in Medicine*, 26, 1802-1811.

Thomas, N., Raghunathan, T.E., Schenker, N., Katzoff, M.J., and Johnson, C.L. (2006), "An Evaluation of Matrix Sampling Methods Using Data from the National Health and Nutrition Examination Survey," *Survey Methodology*, 32, 217-231.

Schenker, N., Raghunathan, T.E., Chiu, P.-L., Makuc, D.M., Zhang, G., and Cohen, A.J. (2006), "Multiple Imputation of Missing Income Data in the National Health Interview Survey," *Journal of the American Statistical Association*, 101, 924-933.

Cai, L., Schenker, N., and Lubitz, J. (2006), "Analysis of Functional Status Transitions by Using a Semi-Markov Process Model in the Presence of Left-Censored Spells," *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 55, 477-491.

Warner, M., Schenker, N., Heinen, M.A., and Fingerhut, L.A. (2005), "The Effects of Recall on Reporting Injury and Poisoning Episodes in the National Health Interview Survey," *Injury Prevention*, 11, 282-287.

Parker, J.D., Schenker, N., Ingram, D.D., Weed, J.A., Heck, K.E., and Madans, J.H. (2004), "Bridging Between Two Standards for Collecting Information on Race and Ethnicity: An Application to Census 2000 and Vital Rates," *Public Health Reports*, 119, 192-205.

Schenker, N. (2003), "Assessing Variability Due to Race Bridging: Application to Census Counts and Vital Rates for the Year 2000," *Journal of the American Statistical Association*, 98, 818-828.

Payton, M.E., Greenstone, M.H., and Schenker, N. (2003), "Overlapping Confidence Intervals or Standard Error Intervals: What Do They Mean in Terms of Statistical Significance?" *Journal of Insect Science*, 3:34, 6 pp.

Schenker, N., and Parker, J.D. (2003), "From Single-Race Reporting to Multiple-Race Reporting: Using Imputation Methods to Bridge the Transition," *Statistics in Medicine*, 22, 1571-1587.

Schenker, N., Gentleman, J.F., Rose, D., Hing, E., and Shimizu, I.M. (2002), "Combining Estimates from Complementary Surveys: A Case Study Using Prevalence Estimates from National Health Surveys of Households and Nursing Homes," *Public Health Reports*, 117, 393-407.

Faucett, C.L., Schenker, N., and Taylor, J.M.G. (2002), "Survival Analysis Using Auxiliary Variables via Multiple Imputation, with Application to AIDS Clinical Trial Data," *Biometrics*, 58, 37-47.

Cho, M., Schenker, N., Taylor, J.M.G., and Zhuang, D. (2001), "Survival Analysis with Long-Term Survivors and Partially Observed Covariates," *The Canadian Journal of Statistics*, 29, 421-436.

Zaslavsky, A.M., Schenker, N., and Belin, T.R. (2001), "Downweighting Influential Clusters in Surveys: Application to the 1990 Post-Enumeration Survey," *Journal of the American Statistical Association*, 96, 858-869.

Schenker, N., and Gentleman, J.F. (2001), "On Judging the Significance of Differences by Examining the Overlap Between Confidence Intervals," *The American Statistician*, 55, 182-186.

Zhuang, D., Schenker, N., Taylor, J.M.G., Mosseri, V., and Dubray, B. (2000), "Analysing the Effects of Anaemia on Local Recurrence of Head and Neck Cancer When Covariate Values Are Missing," *Statistics in Medicine*, 19, 1237-1249.

Schafer, J.L., and Schenker, N. (2000), "Inference with Imputed Conditional Means," *Journal of the American Statistical Association*, 95, 144-154.

Cho, M., and Schenker, N. (1999), "Fitting the Log-F Accelerated Failure Time Model with Incomplete Covariate Data," *Biometrics*, 55, 826-833.

Meng, X., and Schenker, N. (1999), "Maximum Likelihood Estimation for Linear Regression Models with Right Censored Outcomes and Missing Predictors," *Computational Statistics & Data Analysis*, 29, 471-483.

Faucett, C.L., Schenker, N., and Elashoff, R.M. (1998), "Analysis of Censored Survival Data with Intermittently Observed Time-Dependent Binary Covariates," *Journal of the American Statistical Association*, 93, 427-437.

Schenker, N., and Taylor, J.M.G. (1996), "Partially Parametric Techniques for Multiple Imputation," *Computational Statistics & Data Analysis*, 22, 425-446.

Schenker, N., Ed. (1993), "Undercount in the 1990 Census," *Journal of the American Statistical Association*, 88, 1044-1166 (editorial introduction, 1044-1046).

Dorey, F.J., Little, R.J.A., and Schenker, N. (1993), "Multiple Imputation for Threshold-Crossing Data with Interval Censoring," *Statistics in Medicine*, 12, 1589-1603.

Schenker, N., Treiman, D.J., and Weidman, L. (1993), "Analyses of Public-Use Decennial Census Data with Multiply-Imputed Industry and Occupation Codes," *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 42, 545-556.

Rubin, D.B., and Schenker, N. (1991), "Multiple Imputation in Health-Care Data Bases: An Overview and Some Applications," *Statistics in Medicine*, 10, 585-598.

Clogg, C.C., Rubin, D.B., Schenker, N., Schultz, B., and Weidman, L. (1991), "Multiple Imputation of Industry and Occupation Codes in Census Public-Use Samples Using Bayesian Logistic Regression," *Journal of the American Statistical Association*, 86, 68-78.

Schenker, N., and Welsh, A.H. (1988), "Asymptotic Results for Multiple Imputation," *The Annals of Statistics*, 16, 1550-1566.

Rubin, D.B., Schafer, J.L., and Schenker, N. (1988), "Imputation Strategies for Missing Values in Post-Enumeration Surveys," *Survey Methodology*, 14, 209-221.

Schenker, N. (1988), "Handling Missing Data in Coverage Estimation, with Application to the 1986 Test of Adjustment Related Operations," *Survey Methodology*, 14, 87-97.

Rubin, D.B., and Schenker, N. (1987), "Interval Estimation from Multiply-Imputed Data: A Case Study Using Census Agriculture Industry Codes," *Journal of Official Statistics*, 3, 375-387.

Rubin, D.B., and Schenker, N. (1987), "Logit-Based Interval Estimation for Binomial Data Using the Jeffreys Prior," *Sociological Methodology*, 17, 131-144.

Schenker, N. (1987), Comment on "Better Bootstrap Confidence Intervals" by B. Efron, *Journal of the American Statistical Association*, 82, 192-194.

Rubin, D.B., and Schenker, N. (1986), "Efficiently Simulating the Coverage Properties of Interval Estimates," *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 35, 159-167.

Rubin, D.B., and Schenker, N. (1986), "Multiple Imputation for Interval Estimation from Simple Random Samples with Ignorable Nonresponse," *Journal of the American Statistical Association*, 81, 366-374.

Schenker, N. (1985), "Qualms About Bootstrap Confidence Intervals," *Journal of the American Statistical Association*, 80, 360-361.

Meyers, G., and Schenker, N. (1983), "Parameter Uncertainty in the Collective Risk Model," *Proceedings of the Casualty Actuarial Society*, LXX, 111-143.

<u>In *Vital and Health Statistics* Series</u>

Ingram, D.D., Parker, J.D., Schenker, N., Weed, J.A., Hamilton, B., Arias, E., and Madans, J.H. (2003), "United States Census 2000 Population with Bridged Race Categories," National Center for Health Statistics, *Vital and Health Statistics*, 2(135).

<u>In Books</u>

National Research Council (2011), *Change and the 2020 Census: Not Whether But How*, Panel to Review the 2010 Census, T.M. Cook, J.L. Norwood, and D.L. Cork, Eds., Committee on National Statistics, Division of Behavioral and Social Sciences and Education, Washington: National Academy Press.

Rubin, D.B., and Schenker, N. (2010), "Imputation and Multiple Imputation," in *Methods and Applications of Statistics in the Life and Health Sciences*, ed. N. Balakrishnan, Hoboken: Wiley, Chapter 38, pp. 425-440.

Rässler, S., Rubin, D.B., and Schenker, N. (2008), "Incomplete Data: Diagnosis, Imputation, and Estimation," in *International Handbook of Survey Methodology*, E.D. de Leeuw, J.J. Hox, and D.A. Dillman, Eds., New York: Lawrence Erlbaum Associates, pp. 370-386.

Schenker, N. (2004), "Bridging Across Changes in Classification Systems," in *Applied Bayesian Modeling and Causal Inference from Incomplete-Data Perspectives*, A. Gelman and X.-L. Meng, Eds., Chichester: Wiley, pp. 117-128.

Rässler, S., Rubin, D.B., and Schenker, N. (2004), "Imputation," in *The SAGE Encyclopedia of Social Science Research Methods*, Volume 2, M.S. Lewis-Beck, A.E. Bryman, and T.F. Liao, Eds., Thousand Oaks: Sage, pp. 477-482.

Barnard, J., Rubin, D.B., and Schenker, N. (2001), "Multiple Imputation," in *International Encyclopedia of the Social & Behavioral Sciences*, N.J. Smelser and P.B. Baltes, Eds.-in-Chief, Oxford: Pergamon, pp. 10204-10210.

National Research Council (1999), *Measuring a Changing Nation: Modern Methods for the 2000 Census*, Panel on Alternative Census Methodologies, M.L. Cohen, A.A. White, and K.F. Rust, Eds., Committee on National Statistics, Commission on Behavioral and Social Sciences and Education, Washington: National Academy Press.

Barnard, J., Rubin, D.B., and Schenker, N. (1998), "Multiple Imputation Methods," in *Encyclopedia of Biostatistics*, Volume 4, P. Armitage, and T. Colton, Eds., Chichester: Wiley, pp. 2772-2780.

Rubin, D.B., and Schenker, N. (1998), "Imputation," in *Encyclopedia of Statistical Sciences*, S. Kotz, C.B. Read, and D.L. Banks, Eds., New York: Wiley, pp. 336-342.

National Research Council (1997), *Preparing for the 2000 Census: Interim Report II*, Panel on Alternative Census Methodologies, A.A. White and K.F. Rust, Eds., Committee on National Statistics, Commission on Behavioral and Social Sciences and Education, Washington: National Academy Press.

National Research Council (1996), *Sampling in the 2000 Census: Interim Report I*, Panel on Alternative Census Methodologies, A.A. White and K.F. Rust, Eds., Committee on National Statistics, Commission on Behavioral and Social Sciences and Education, Washington: National Academy Press.

Little, R.J.A., and Schenker, N. (1995), "Missing Data," in *Handbook of Statistical Modeling in the Social and Behavioral Sciences*, G. Arminger, C.C. Clogg, and M.E. Sobel, Eds., New York: Plenum, pp. 39-75.

In Proceedings of Conferences

Beresovsky, V., Burt, C.W., Parsons, V., Schenker, N., Mutter, R (2011), "Application of Hierarchical Bayesian Models with Poststratification for Small Area Estimation from Complex Survey Data," *Proceedings of the Joint Statistical Meetings*, (American Statistical Association Section on Survey Research Methods), 4745-4756.

Parsons, V.L., Schenker, N., Lochner, K., Wheatcroft, G., and Pamuk, E.R. (2009), "Variability in Life-Table Estimates Based on the National Health Interview Survey Linked Mortality Files," *Proceedings of the Joint Statistical Meetings*, (American Statistical Association Section on Survey Research Methods), 2511-2518.

Parsons, V.L., and Schenker, N. (2008), "County-Level Small-Area Estimation using the National Health Interview Survey (NHIS) and the Behavioral Risk Factor Surveillance System (BRFSS)," *Proceedings of the Joint Statistical Meetings* (American Statistical Association Section on Survey Research Methods), 1100-1107.

Parsons, V., Schenker, N., Raghunathan, T.E., Xie, D., and Davis, W. (2006), "Assessment of Small-Area Estimates from a Complex Survey Cancer Surveillance Project," *Proceedings of the Joint Statistical Meetings* (American Statistical Association Section on Health Policy Statistics), 1645-1647.

Coles, R.H., Barnes, P., Fingerhut, L.A., Gentleman, J.F., Schenker, N., and Warner, M. (2006), "Imputation of Missing Date Information for Injuries and Poisonings Reported in the National Health Interview Survey," *Proceedings of the NorthEast SAS® Users Group Nineteenth Annual Conference*.

Parker, J., Schenker, N., Ingram, D., Weed, J., Arias, E., Hamilton, B., and Madans, J. (2002), "A Method to Bridge Multiple-Race Responses to Single-Race Categories for Population Denominators of Vital Event Rates," *Proceedings of the 2002 Federal Forecasters Conference*, 265-270.

Belin, T.R., Schenker, N., and Zaslavsky, A.M. (1999), "Downweighting Influential Clusters in Surveys, with Application to the 1990 Post-Enumeration Survey," *American Statistical Association Proceedings of the Section on Survey Research Methods*, 73-82.

Diffendal, G.J., Zaslavsky, A.M., Belin, T.R., and Schenker, N. (1994), "Influential Observations in the 1990 Post-Enumeration Survey," *Proceedings of the 1994 Annual Research Conference*, Bureau of the Census, 523-548.

Schafer, J.L., and Schenker, N. (1991), "Variance Estimation with Imputed Means," *American Statistical Association Proceedings of the Section on Survey Research Methods*, 696-701.

Lazzeroni, L.C., Schenker, N., and Taylor, J.M.G. (1990), "Robustness of Multiple-Imputation Techniques to Model Misspecification," *American Statistical Association Proceedings of the Section on Survey Research Methods*, 260-265.

Schenker, N. (1989), "The Use of Imputed Probabilities for Missing Binary Data," *Proceedings of the Fifth Annual Research Conference*, Bureau of the Census, 133-139.

Schenker, N., Treiman, D.J., and Weidman, L. (1988), "Multiple Imputation of Industry and Occupation Codes for Public-Use Files," *American Statistical Association Proceedings of the Section on Survey Research Methods*, 85-92.

Rubin, D.B., Schafer, J.L., and Schenker, N. (1988), "Imputation Strategies for Estimating the Undercount," *Proceedings of the Fourth Annual Research Conference*, Bureau of the Census, 151-159.

Schenker, N., and Wolter, K.M. (1987), "Handling Missing Data in Coverage Measurement Surveys," *Proceedings of the International Statistical Institute*, 393-394.

Childers, D., Diffendal, G., Hogan, H., Schenker, N., and Wolter, K. (1987), "The Technical Feasibility of Correcting the 1990 Census," *American Statistical Association Proceedings of the Social Statistics Section*, 36-45.

Schenker, N. (1987), "Handling Missing Data in the 1986 Test of Adjustment Related Operations," *American Statistical Association Proceedings of the Section on Survey Research Methods*, 639-643.

Rubin, D.B., and Schenker, N. (1986), "Efficiently Simulating the Coverage Properties of Interval Estimates" (abstract), *American Statistical Association Proceedings of the Section on Statistical Computing*, 286.

Meyers, G., and Schenker, N. (1982), "Parameter Uncertainty in the Collective Risk Model" (with discussion), in *Pricing, Underwriting, and Managing the Large Risk*, discussion paper program, Casualty Actuarial Society, 253-306.

Presentations

Keynote, Honorary, and Other Special Presentations

"Identification and Multiple Imputation of Implausible Gestational Ages for the Study of Preterm Births" (with formal discussion). DSMD Distinguished Seminar, Bureau of the Census, Suitland, MD (2013).

"Multiple Uses of (Mostly Multiple) Imputation at the National Center for Health Statistics." Keynote presentation, 7th Annual Probability & Statistics Day at UMBC, University of Maryland, Baltimore County (2013).

"A Mathematical Statistician's Perspective on Questionnaire Evaluation." Invited opening presentation, Question Evaluation Standards (QUEST) Workshop, Washington DC (2013).

Invited formal discussion of "Statistical Analysis Using Combined Data Sources" by Raymond Chambers. JPSM Distinguished Lecture, Joint Program in Survey Methodology, University of Maryland, College Park (2011).

Invited formal discussion of "Assessing the Value of Bayesian Methods for Inference About Finite Population Quantities" by Joseph Sedransk, Morris Hansen Lecture, Washington Statistical Society, Westat, Inc., and National Agricultural Statistics Service, Washington, DC (2007).

"Bridging: Roger Herriot's Time to the Present." Roger Herriot Award Seminar, Washington Statistical Society, Washington, DC (2007).

Other Invited Presentations

"Identification and Multiple Imputation of Implausible Gestational Ages for the Study of Preterm Births." Conference on Applications of Missing-Data Procedures, Bamberg, Germany (2013).

"Multiple Imputation: An Introduction and Applications." American Statistical Association Conference on Statistical Practice, New Orleans, LA (2013).

"Combining Information from Multiple Data Systems to Enhance Analyses Related to Health: Examples and Lessons Learned." RTI International, Washington, DC (2012).

Formal discussion of "Adjusting for Non-Response in the Occupational Employment Statistics Survey" by Nicholas Horton, Daniell Toth, and Polly Phipps. Washington Statistical Society Seminar, Bureau of Labor Statistics, Washington, DC (2012).

"Multiple Bridging Projects Using Multiple Imputation and Related Techniques." Department of Statistical Science, Duke University, Durham, NC (2012).

"Multiple Imputation for Missing Body-Scan (DXA) Data in the National Health and Nutrition Examination Survey." Joint Statistical Meetings, San Diego, CA (2012).

"Multiple Uses for Multiple Imputation at the U.S. National Center for Health Statistics." 40th Annual Meeting of the Statistical Society of Canada, University of Guelph, Ontario, Canada (2012).

"Internal Consulting in a Government Agency." Presentation as panelist in session entitled "Statistical Consulting-Working Collaboratively Across Disciplines." American Statistical Association Conference on Statistical Practice, Orlando, FL (2012).

"Some Recent and Potential Uses of Multiple Imputation at the National Center for Health Statistics." National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD (2011).

"Estimating Standard Errors for Life Expectancies Based on Complex Survey Data with Mortality Follow-Up: A Case Study Using the National Health Interview Survey Linked Mortality Files." Department of Biostatistics, University of Pittsburgh, Pittsburgh, PA (2011); Department of Biostatistics, University of California, Los Angeles (2011).

"Multiple Uses of (Mostly Multiple) Imputation at the National Center for Health Statistics." 4th Workshop on Analysis of Incomplete Data, Bamberg University, Bamberg, Germany (2011); Department of Public Health, Oregon State University, Corvallis, OR (2008).

"Combining Information from Multiple Surveys: Examples and Lessons Learned." Workshop on Integrative Data Analysis, Association for Psychological Science Convention, Washington, DC (2011); Workshop on Evaluating Databases for Use in Uninsured Estimates for Children," Committee on National Statistics, National Research Council, Washington, DC (2010).

"Improving on Analyses of Self-Reported Data in a Large-Scale Health Survey by Using Information from an Examination-Based Survey." Department of Statistics, North Carolina State University, Raleigh, NC (2010).

"Small-Area Estimation of the Prevalence of Cancer Risk Factors and Screening via Bayesian Methods Using Combined Information from Two Surveys." Joint Statistical Meetings, Washington, DC (2009).

Formal discussion of "Why Bayes, for Statistics in General and Missing Data Problems in Particular?" by Roderick Little. Workshop on Bayesian Methods that Frequentists Should Know, University of Maryland, College Park (2008).

"Combining Information from Multiple Surveys to Enhance the Estimation of Measures of Health." Westat, Inc., Rockville, MD (2008); Department of Statistics, Oregon State University, Corvallis, OR (2008); International Conference on Health Policy Statistics, Philadelphia, PA (2008); Spring Meeting of the International Biometric Society (Eastern North American Region), Tampa, FL (2006); Department of Biostatistics, University of California, Los Angeles (2006); Institute for Social Research, University of Michigan, Ann Arbor (2005); Tenth Biennial CDC/ATSDR Symposium on Statistical Methods, Bethesda, MD (2005).

"Improving on Analyses of Self-Reported Data in an Interview-Based Health Survey by Using Information from a Smaller Examination-Based Survey." Department of Biostatistics, University of California, Los Angeles (2008).

Formal discussion of invited paper session entitled "Innovative Imputation Methods in Health Research." Joint Statistical Meetings, Salt Lake City, UT (2007).

"Combining Information from Two Surveys to Improve on Analyses of Self-Reported Data in Estimating Measures of Health." XIII International Methodology Symposium, Gatineau, Canada (2006).

Formal discussion of invited paper session entitled "Real-Life Problems Advancing Missing Data Techniques." Joint Statistical Meetings, Seattle, WA (2006).

"Multiple Imputation of Missing Income Data in the National Health Interview Survey" (and similar titles). International Conference on Health Policy Research, Boston, MA (2005); Center for Financing, Access, and Cost Trends, Agency for Healthcare Research and Quality, Rockville, MD (2005); Department of Biostatistics, University of California, Los Angeles (2005); Annual meeting of the

American Association for the Advancement of Science, Washington, DC (2005); meeting of the Interagency Household Survey Nonresponse Group, Washington, DC (2004); Workshop on Multiple Imputation, Nuremberg Statistics Symposium, Germany (2003).

"Assessing Variability Due to Race Bridging." Joint Statistical Meetings, Toronto, Canada (2004).

"Combining Information from Multiple Surveys for Small-Area Estimation: A Bayesian Approach." Nuremberg Statistics Symposium, Germany (2004).

"Bridging Between Two Standards for Collecting Information on Race and Ethnicity: An Application to Census Counts and Vital Rates for the Year 2000." Division of Bacterial and Mycotic Diseases, National Center for Infectious Diseases, Atlanta, GA (2004); Department of Biostatistics, University of California, Los Angeles, CA (2004); Joint Statistical Meetings, San Francisco, CA (2003); Center for Cost and Finance Studies, Agency for Healthcare Research and Quality, Rockville, MD (2003).

"The Use of Multiple Imputation to Calibrate Industry and Occupation Codes in Public-Use Samples from the 1970 and 1980 Censuses." Workshop on Multiple Imputation, Nuremberg Statistics Symposium, Nuremberg, Germany (2003); Computational Statistics Colloquium Series, George Mason University, Fairfax, VA (1999); Office of Survey Methods Research, Bureau of Labor Statistics, Washington, DC (1998); Department of Information and Operations Management, University of Southern California, Los Angeles, CA (1995); Department of Statistics, University of California, Riverside, CA (1995).

"Bridging Multiple-Race Responses in the U.S. Census to Single-Race Categories for the Calculation of Vital Rates." XIX International Methodology Symposium, Ottawa, Canada (2002).

Presentation on research at the National Center for Health Statistics on race bridging (joint with Jennifer H. Madans). Meeting of the Census Bureau's Race and Ethnic Advisory Committee on the African American Population, Alexandria, VA (2002).

"Missing-Data Issues in Clinical Trials." Spring Meeting of the International Biometric Society (Eastern North American Region), Arlington, VA (2002).

"Survival Analysis Using Auxiliary Variables via Multiple Imputation, with Application to AIDS Clinical Trial Data." Applied Statistics Symposium, International Chinese Statistical Association, Plymouth Meeting, PA (2002); Department of Statistics, Harvard University, Cambridge, MA (2001); Department of Biostatistics, University of North Carolina, Chapel Hill, NC (2001); Department of Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, PA (2001); FDA/Industry Workshop, Bethesda, MD (2000).

Formal discussion of three papers on treatment of missing data. Federal Committee on Statistical Methodology Research Conference, Arlington, VA (2001).

"From Single-Race Reporting to Multiple-Race Reporting: Using Imputation Methods to Bridge the Transition." Eighty-Fifth Meeting of the Committee on National Statistics, Washington, DC (2001); Eighth Biennial CDC/ATSDR Symposium on Statistical Methods, Atlanta, GA (2001); Joint Program in Survey Methodology, University of Maryland, College Park, MD, videoconference with the University of Michigan and the University of Minnesota (2001); Statistical Research Division, U.S. Bureau of the Census, Suitland, MD (2001).

"Combining Estimates of Prevalence from Complementary Health Surveys: A Case Study Using Prevalence Estimates from National Surveys of Households and Nursing Homes." International Conference on Health Policy Research, Boston, MA (2001).

"Analyzing the Effects of Anemia on Local Recurrence of Head and Neck Cancer When Covariate Values Are Missing." Department of Biostatistics, Columbia University, New York, NY (2000); Division of Cancer Prevention, National Cancer Institute, Rockville, MD (2000); Center for Biologics Evaluation and Research, Food and Drug Administration, Rockville, MD (2000).

"Downweighting Influential PSUs in Surveys, with Application to the 1990 Post-Enumeration Survey." Methodology Branch, Statistics Canada, Ottawa, Canada (2000); Department of Statistics, University of Chicago, Chicago, IL (2000); Joint Program in Survey Methodology, University of Maryland, College Park, MD, videoconference with the University of Michigan (2000); Decennial Statistical Studies Division, Bureau of the Census, Suitland, MD (2000).

Formal discussion of "Replication Methods for Variance Estimation in Complex Surveys with Imputed Data" by Jun Shao. International Conference on Survey Nonresponse, Portland, OR (1999).

"Analysis of Censored Survival Data with Missing Time-Dependent Binary Covariates." National Opinion Research Center, Washington, DC (1998); Department of Statistics, University of California, Riverside, CA (1998); Office of Research and Methodology, National Center for Health Statistics, Hyattsville, MD (1998); Department of Biostatistics, University of Michigan, Ann Arbor, MI (1996).

Formal discussion of session entitled "1995 Census Test: Integrated Coverage Measurement Evaluations." Joint Statistical Meetings, Chicago, IL (1996).

"The Use of Multiple Imputation to Incorporate Auxiliary Variables into the Analysis of Clinical Trial Data." Joint Statistical Meetings, Chicago, IL (1996).

Formal discussion of dinner presentations on the bootstrap. Orange County Section, Southern California Chapter, American Statistical Association, Anaheim, CA (1990).

"Estimating the Census Undercount." Claremont Colleges Mathematics Colloquium, Claremont, CA (1990); Statistics Group, RAND, Santa Monica, CA (1990); dinner meeting, West Los Angeles Section, Southern California Chapter, American Statistical Association, Los Angeles, CA (1990).

"Some Applications of Multiple Imputation." Third Biennial Regenstrief Conference, Marshall, IN (1989).

"The Use of Imputed Probabilities for Missing Binary Data." Fifth Annual Research Conference, Bureau of the Census, Arlington, VA (1989).

"Multiple Imputation of Industry and Occupation Codes for Public-Use Data Files." Joint Statistical Meetings, New Orleans, LA (1988).

"Interval Estimation from Multiply-Imputed Data: A Case Study Using Census Agriculture Industry Codes." Statistics Group, RAND, Santa Monica, CA (1988); Graduate School of Business, University of Chicago, Chicago, IL (1988); Department of Biostatistics, University of California, Los Angeles, CA (1988); Department of Statistics, Northwestern University, Evanston, IL (1988); Department of Mathematics, University of Maryland, College Park, MD (1987).

"Handling Missing Data in the 1986 Test of Adjustment Related Operations." Department of Statistics, Harvard University, Cambridge, MA (1987).
"Multiple Imputation for Interval Estimation." Washington Statistical Society, Washington, DC (1985).

"Multiple Imputation Methods for Simple Random Samples." Statistical Research Division, Bureau of the Census, Suitland, MD (1983).

Other Presentations

"Office of Research Methodology (ORM): An Overview for the NCHS Board of Scientific Counselors," National Center for Health Statistics, Hyattsville, MD (2012).

Panelist in session entitled "The World of Applied Statistics: Where Do YOU Fit In?" Joint Statistical Meetings, Miami Beach, FL (2011).

"Multiple Uses of (Mostly Multiple) Imputation at the National Center for Health Statistics." National Conference on Health Statistics, National Center for Health Statistics, Washington, DC (2010).

"Multiple Imputation of Missing Dual-Energy X-Ray Absorptiometry Data in the National Health and Nutrition Examination Survey" (with Lori Borrud and Lester Curtin). Division of Health and Nutrition Examination Statistics seminar, National Center for Health Statistics, Hyattsville, MD (2009).

"Introduction to Methods for Handling Missing Data, with Emphasis on Multiple Imputation." National Center for Health Statistics Data Users Conference, Washington, DC (2008).

"Fitting a Semi-Markov Process Model to Data on Transitions Between Health States in the Presence of Left Censoring." Joint Statistical Meetings, Denver, CO (2008).

"Multiple Imputation of Missing Income Data in the National Health Interview Survey." National Center for Health Statistics Data Users Conference, Washington, DC (2006); Division of Health Interview Statistics Analytic Forum, National Center for Health Statistics, Hyattsville, MD (2005); National Center for Health Statistics Data Users Conference, Washington, DC (2004); Data Analysis Group Seminar, National Center for Health Statistics, Hyattsville, MD (2003).

"Combining Information from Multiple Surveys to Enhance the Estimation of Measures of Health." Office of Analysis and Epidemiology, National Center for Health Statistics, Hyattsville, MD (2006).

"Combining Information from Multiple Surveys to Improve on Analyses of Self-Reported Data in Estimating Measures of Health Disparities." Joint Statistical Meetings, Minneapolis, MN (2005).

"Combining Information from Multiple Surveys for Small-Area Estimation: A Bayesian Approach." Spring Meeting of the International Biometric Society (Eastern North American Region), Pittsburgh, PA (2004).

"Assessing Variability Due to Race Bridging." Division of Vital Statistics, National Center for Health Statistics, Hyattsville, MD (2003).

"Bridging the Transition from Single-Race Reporting to Multiple-Race Reporting in Federal Data Collections" (presented jointly with Jennifer D. Parker), Statistics Program, Department of Mathematics, University of Maryland, College Park, MD (2002).

"On Judging the Significance of Differences by Examining the Overlap Between Confidence Intervals." Data Analysis Group Seminar, National Center for Health Statistics, Hyattsville, MD (2001).

"Combining Estimates of Prevalence from Complementary Health Surveys: A Case Study Using Prevalence Estimates from National Surveys of Households and Nursing Homes." Division of Health Care Statistics, National Center for Health Statistics, Hyattsville, MD (2001); Division of Health Interview Statistics, National Center for Health Statistics, Hyattsville, MD (2000); Second Interchange Between the National Center for Health Statistics and Statistics Canada's Health Statistics Division, Ottawa, Canada (2000).

"Survival Analysis Using Auxiliary Variables via Multiple Imputation, with Application to AIDS Clinical Trial Data." Joint Statistical Meetings, Indianapolis, IN (2000).

"Downweighting Influential PSUs in Surveys, with Application to the 1990 Post-Enumeration Survey." Office of Research and Methodology, National Center for Health Statistics, Hyattsville, MD, joint with the Washington Statistical Society (2000).

"The Use of Multiple Imputation to Calibrate Industry and Occupation Codes in Public-Use Samples from the 1970 and 1980 Censuses." Office of Research and Methodology, National Center for Health Statistics, Hyattsville, MD (1999).

"Analysis of Censored Survival Data with Missing Time-Dependent Binary Covariates." Department of Biostatistics, University of California, Los Angeles, CA (1996).

"Survival Analysis with Missing Covariates." Joint Statistical Meetings, Toronto, Canada (1994).

"Logistic Regression with Missing Predictors." Joint Statistical Meetings, San Francisco, CA (1993).

"Estimating the Census Undercount." Department of Biostatistics, University of California, Los Angeles, CA (1990).

"The Use of Imputed Probabilities for Missing Binary Data." Department of Biostatistics, University of California, Los Angeles, CA (1989).

"Interval Estimation from Multiply-Imputed Data: A Case Study Using Census Agriculture Industry Codes." Statistical Research Division, Bureau of the Census, Suitland, MD (1987).

"Handling Missing Data in the 1986 Test of Adjustment Related Operations." Joint Statistical Meetings, San Francisco, CA (1987).

"Efficiently Simulating the Coverage Properties of Interval Estimates." Joint Statistical Meetings, Chicago, IL (1986).

"Multiple Imputation for Interval Estimation." Department of Statistics, University of Chicago, Chicago, IL (1985).

"Bootstrap Confidence Intervals." Joint Statistical Meetings, Toronto, Canada (1983); Statistics Group, RAND, Santa Monica, CA (1983); Department of Statistics, University of Chicago, Chicago, IL (1983).

"The Modified Gamma Approximation." CNA Insurance Company, Chicago, IL (1980).

Teaching Experience

Courses Taught

Survey Methodology 744, "Topics in Sampling" (guest lecturer), Joint Program in Survey Methodology.

Survey Methodology 770/771, "Survey Design Seminar" (guest instructor and guest "client"), Joint Program in Survey Methodology.

Biostatistics 100A, "Introduction to Biostatistics," University of California, Los Angeles.

Biostatistics 100B, “Introduction to Biostatistics,” University of California, Los Angeles.

Biostatistics 207L, “Survey Nonresponse and Multiple Imputation,” University of California, Los Angeles.

Biostatistics 212, “Distribution-Free Methods,” University of California, Los Angeles.

Biostatistics 232, “Statistical Analysis of Incomplete Data,” University of California, Los Angeles.

Biostatistics 240A, “Research Resources in Biostatistics,” University of California, Los Angeles.

Biostatistics 240B, “Seminar for Second-Year Biostatistics Master's Students,” University of California, Los Angeles.

Biostatistics 245, “Advanced Seminar: Biostatistics,” University of California, Los Angeles.

Biostatistics 276, “Inferential Techniques that Use Simulation,” University of California, Los Angeles.

Biostatistics 404, “Principles of Sampling,” University of California, Los Angeles.

Biostatistics 405, “Demographic Materials and Methods,” University of California, Los Angeles.

Statistics 200, “Elementary Statistics,” University of Chicago.

Supervision of Graduate Students

Doctoral Students Supervised:

Dongliang Zhuang, *Survival Analysis with Long-Term Survivors and Partially Observed Covariates*, University of California, Los Angeles, 1999.

Meehyung Cho, *Bayesian Analysis for the Accelerated Failure Time Model with Incomplete Covariate Data*, University of California, Los Angeles, 1998.

Xiangyi Meng, *Estimation and Testing for Failure Time Regression Models with Missing Predictors*, University of California, Los Angeles, 1996.

Carlos Gimenez Lazaro, *Small Sample Inference on Fixed Effects in Mixed Models*, University of California, Los Angeles, 1993 (co-chair of doctoral committee with R.J.A. Little).

Other Supervision of Students:

Served on twenty-six other doctoral dissertation committees: twenty-two at the University of California, Los Angeles; three in the Joint Program in Survey Methodology; and one at the University of Michigan Program in Survey Methodology.

Supervised five students writing Master of Science papers at the University of California, Los Angeles.

Served on the doctoral oral comprehensive examination committees for two students at the Joint Program in Survey Methodology.