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**March 2014**

## **Education**

**August 1987:** Ph.D. in Statistics, Harvard University, Cambridge, Massachusetts.  
Dissertation title: Large Sample Significance Levels from Multiply Imputed Data Sets.  
**August 1983:** M.S. in Statistics, Miami University, Oxford, Ohio.  
**August 1979:** M.Sc. in Statistics, Nagpur University, Nagpur, India.  
**August 1977:** B. Sc. in (Physics, Mathematics and Statistics), Nagpur University,  
Nagpur, India.

## **Experience**

**January 2010-Present:** Chair, Department of Biostatistics, School of Public Health,  
University of Michigan  
**August 2008-2012:** Director, Biostatistics and Measurement Core, Michigan Institute for  
Clinical and Health Research and CTSA-Michigan  
**August 2002-Present:** Professor, Department of Biostatistics and Research Professor,  
Institute for Social Research, University of Michigan  
**August 2004-Present:** Director of Biostatistics Collaborative and Methodology Research  
Core, Department of Biostatistics, School of Public Health  
**September 1998-Present:** Associate Director of Center for Research on Ethnicity Culture  
and Health, School of Public Health  
**September 1997-June 2001:** Director, Survey Methodology Program, Institute for Social  
Research, University of Michigan  
**September 1997-August 2002:** Senior Associate Research Scientist, Institute for Social  
Research and Associate Professor, Department of Biostatistics, University of Michigan  
**July 1994-August 1997:** Associate Research Scientist, Institute for Social Research, and  
(95-97) Associate Professor, Department of Biostatistics, University of Michigan.  
**July 1995-Present:** Faculty (currently, Research Professor), Joint Program in Survey  
Methodology, University of Maryland.  
**August 1987-June 1994:** Assistant Professor, Department of Biostatistics, University of  
Washington.  
**December 1986-July 1987:** Instructor, Department of Statistics, Harvard University.  
**August 1983-November 1986:** Teaching and Research Assistant, Department of Statistics,  
Harvard University.  
**August 1982-July 1983:** Teaching Assistant, Department of Mathematics and Statistics,  
Miami University, Ohio.  
**August 1979-July 1982:** Lecturer in Statistics, Institute of Science, Nagpur University,  
Nagpur, India.

## Publications in refereed journals

1. He Y, Raghunathan TE. Multiple imputation using multivariate gh transformations. *Journal of Applied Statistics*. 2012;39(10):2177-98.
2. Sánchez BN, Wu M, Raghunathan TE, Diez-Roux AV. Modeling the Salivary Cortisol Profile in Population Research: The Multi-Ethnic Study of Atherosclerosis. *American Journal of Epidemiology*. 2012;176(10):918-28. PMID:3626059
3. Schneider BL, Magee JC, Bezerra JA, Haber B, Karpen SJ, Raghunathan T, Rosenthal P, Schwarz K, Suchy FJ, Kerkar N. Efficacy of Fat-Soluble Vitamin Supplementation in Infants With Biliary Atresia. *Pediatrics*. 2012; 130:3 e607-e614.
4. Chen W, Ghosh D, Raghunathan TE, Norkin M, Sargent DJ, Bepler G. On Bayesian methods of exploring qualitative interactions for targeted treatment. *Statistics in Medicine*. 2012;31(28):3693-707. PMID:3528020
5. Bai Y, Song P, Raghunathan T. Joint composite estimating functions in spatiotemporal models. *Journal of the Royal Statistical Society: Series B (Statistical Methodology)*. 2012.
6. Kaciroti NA, Raghunathan TE, Taylor JMG, Julius S. A Bayesian model for time-to-event data with informative censoring. *Biostatistics*. 2012. PMID:22223746
7. Stein KF, Wing J, Lewis A, Raghunathan T. An eating disorder randomized clinical trial and attrition: Profiles and determinants of dropout. *International Journal of Eating Disorders*. 2011;44(4):356-68. PubMed Central PMID: PMC3107987.
8. Sakshaug J, Raghunathan T. Synthetic data for small area estimation. *Privacy in Statistical Databases*. 2011:162-73.
9. Russo P, Magee JC, Boitnott J, Bove KE, Raghunathan T, Finegold M, et al. Design and validation of the biliary atresia research consortium histologic assessment system for cholestasis in infancy. *Clinical Gastroenterology and Hepatology*. 2011. PMID: 21238606
10. He Y, Yucel R, Raghunathan TE. A functional multiple imputation approach to incomplete longitudinal data. *Statistics in Medicine*. 2011;30(10):1137-56. doi: 10.1002/sim.4201. PMID:2134180
11. Dowd JB, Albright J, Raghunathan TE, Schoeni RF, LeClere F, Kaplan GA. Deeper and wider: income and mortality in the USA over three decades. *International Journal of Epidemiology*. 2011;40(1):183-8. doi: 10.1093/ije/dyq189. PubMed Central PMID: PMC3043282.
12. Wagner J, Raghunathan TE. A new stopping rule for surveys. *Statistics in Medicine*. 2010;29(9):1014-24. doi: 10.1002/sim.3834. PMID:20131311
13. Siscovick D, Sotoodehnia N, Rea T, Raghunathan T, Jouven X, Lemaitre R. Type 2 diabetes mellitus and the risk of sudden cardiac arrest in the community. *Reviews in Endocrine & Metabolic Disorders*. 2010;11(1):53-9. doi: 10.1007/s11154-010-9133-5. PMID:20185771

14. Singer E, Couper MP, Raghunathan TE, Antonucci TC, Burmeister M, Van Hoewyk J. The Effect of Question Framing and Response Options on the Relationship between Racial Attitudes and Beliefs about Genes as Causes of Behavior. *Public opinion quarterly*. 2010;74(3):460-76.
15. Schenker N, Raghunathan TE, Bondarenko I. Improving on analyses of self-reported data in a large-scale health survey by using information from an examination-based survey. *Statistics in Medicine*. 2010;29(5):533-45. doi: 10.1002/sim.3809. PMID:20029804
16. Schenker N, Raghunathan TE. Discussion-Assessing the Value of Bayesian Methods for Inference about Finite Population Quantities. *Journal of Official Statistics*. 2010;24(4):507.
17. Reiter JP, Raghunathan TE. Review Article-The Multiple Adaptations of Multiple Imputation. *Journal of the American Statistical Association*. 2010;102(480):1462.
18. Lemaitre RN, King IB, Sotoodehnia N, Knopp RH, Mozaffarian D, McKnight B, et al. Endogenous red blood cell membrane fatty acids and sudden cardiac arrest. *Metabolism*. 2010;59(7):1029-34. doi: 10.1016/j.metabol.2009.10.026. PubMed Central PMCID: PMC2882498.
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20. Elliott MR, Raghunathan TE, Li Y. Bayesian inference for causal mediation effects using principal stratification with dichotomous mediators and outcomes. *Biostatistics*. 2010;11(2):353-72. doi: 10.1093/biostatistics/kxp060. PubMed Central PMCID: PMC2830580.
21. Davis W, Parsons V, Xie D, Schenker N, Town M, Raghunathan T, et al. State-based estimates of mammography screening rates based on information from two health surveys. *Public Health Report*. 2010;125(4):567-78. PubMed Central PMCID: PMC2882608.
22. Clemente MG, Patton JT, Parashar UD, Whittington PF, Yolken RH, Raghunathan TE, et al. 4 Prevalence of Acute Asymptomatic Group a Rotavirus Infection in Cholestatic Infants Enrolled in the Biliary Atresia Research Consortium (BARC). *Gastroenterology*. 2010;138(5):S-773-S-.
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  28. Chen W, Ghosh D, Raghunathan TE, Sargent DJ. Bayesian Variable Selection with Joint Modeling of Categorical and Survival Outcomes: An Application to Individualizing Chemotherapy Treatment in Advanced Colorectal Cancer. *Biometrics*. 2009;65(4):1030-40. doi: 10.1111/j.1541-0420.2008.01181.x. PubMed Central PMCID: PMC2870722.
  29. Yang S, Lynch J, Schulenberg J, Diez Roux AV, Raghunathan T. Emergence of socioeconomic inequalities in smoking and overweight and obesity in early adulthood: the national longitudinal study of adolescent health. *American Journal of Public Health*. 2008;98(3):468-77. PubMed Central PMCID: PMC2253566.
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55. Baltrus PT, Everson-rose SA, Lynch JW, Raghunathan TE, Kaplan GA. Socioeconomic Position in Childhood and Adulthood and Weight Gain over 34 Years: The Alameda County Study. *Annals of Epidemiology*. 2007;17(8):608-14. doi: 10.1016/j.annepidem.2007.03.007. PubMed Central PMCID: PMC3196359.
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61. Schenker N, Raghunathan TE, Chiu PL, Makuc DM, Zhang G, Cohen AJ. Multiple imputation of missing income data in the National Health Interview Survey. *Journal of the American Statistical Association*. 2006;101(475):924-33.
62. Reiter JP, Raghunathan TE, Kinney SK. The importance of modeling the sampling design in multiple imputation for missing data. *Survey Methodology*. 2006;32(2):143.
63. Raghunathan TE. Combining information from multiple surveys for assessing health disparities. *Allgemeines Statistisches Archiv*. 2006;90(4):515-26.
64. Raghunathan T, Roux AD, Chen W. Predicting cumulative particulate matter exposure using space-time models and historical monitor data. *Epidemiology*. 2006;17(6):S250.
65. Sampsel CM, Messer KL, Seng JS, Raghunathan TE, Hines SH, Diokno AC. Learning Outcomes of a Group Behavioral Modification Program to Prevent Urinary Incontinence. *Journal of Women's Health*. 2006;30(2):3. PMID:16237512
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178. Hahn GJ, Raghunathan TE. Combining information from various sources: a prediction problem and other industrial applications. *Technometrics*. 1988:41-52.

#### **Other Publications refereed and non-refereed**

Cain K, Martin D, Holubkov A, Raghunathan T, Cole W, Thompson A, editors. *A logistic regression model of mortality following hospital admissions among Medicare patients: comparison with HCFA's model*. 1994.

Raghunathan TE, Rubin DB. Roles for Bayesian techniques in survey sampling. *Proceedings of the Silver Jubilee meeting of the Statistical Society of Canada*. 1998:51-5.

Raghunathan T, Paulin G. Multiple imputation of income in the Consumer Expenditure Survey: Evaluation of statistical inference. *Proceedings of the Section on Business and Economic Statistics*. 1998.

Raghunathan T, Ramaswamy V, Cohen SH, Ozcan K. *A Unified Imputation Approach for the Treatment and Analysis of Missing Data in Marketing Research*. 1999.

Heeringa SG, Little RJA, Raghunathan TE. *Multivariate imputation of coarsened survey data on household wealth: University of Michigan; 2000*.

Tang G, Little R, Raghunathan T. *Analysis of Bivariate Incomplete Monotone Data. PROCEEDINGS-AMERICAN STATISTICAL ASSOCIATION BIOMETRICS SECTION*. 2000:86-9.

Hillemeier M, Kaplan G, Lynch J, Raghunathan T, Shaw M, Smith GD. *Income Inequality, the Psycho-social Environment and Health Comparisons of Wealthy Nations* 2001.

Schenker N, Raghunathan TE, Chiu P, Makuc DM, Zhang G, Cohen AJ. *Multiple imputation of family income and personal earnings in the National Health Interview Survey: methods and*



examples. Hyattsville, MD: National Center for Health Statistics. 2004.

Groves RM, Raghunathan T. Mixed Mode Methods in a World of Social Isolates, Pervasive Surveillance, and Ubiquitous Transaction Records: A Modest Proposal. 2005.

Xie D, Raghunathan TE, Lepkowski JM. Estimation of Prevalence of Overweight in Small Areas—A Robust Extension of Fay-Herriot Model. 2005 Proceedings of the American Statistical Association. 2005:3701-12. PMID:16877109

Raghunathan T, Bondarenko I. Diagnostics for multiple imputations. 2007.

Wagner J, Raghunathan T. Bayesian approaches to sequential selection of survey design protocols. *Proceedings of the Section on Survey Research Methods of the American Statistical Association*. 2007.

Raghunathan T, Van Hoewyk J. Disclosure Risk Assessment for Survey Microdata." *Ann Arbor*. 2008;1001:48106-1248.

Dempster, A. P, Raghunathan, T.E, (1985). Using a covariate for small area estimation: a common sense Bayesian approach, *Proceedings of the International Symposium on Small Area Statistics*, Wiley, New York, 77–90.

Raghunathan TE. Large sample significance levels from multiply-imputed data: Harvard University; 1987.

Raghunathan, T.E, Rubin, D.B., (1989). An application of Bayesian Statistics using sampling/importance re-sampling to a deceptively simple problem from quality control, *Data Quality Control Theory*, Marcel Dekker Inc, 229–243.

Raghunathan, T.E, (1990). Discussion of “Posterior Bayes Factors” by M. Aitkin, *Journal of Royal Statistical Society*.

Herringa, S.G., Little R.J.A., Raghunathan, T.E. (1997). Imputation of multivariate data on household net worth in household surveys, *Proceeding of Survey Methods Section of the American Statistical Association*, 135–140.

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Little R.J.A., Raghunathan, T.E, (1997). Should imputation of missing data condition on all observed variables? *Proceeding of Survey Methods Section of the American Statistical Association*, 617–622.

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Paulin, G.D., Raghunathan, T.E. (1998). Multiple Imputation in the consumer expenditure survey: Evaluation of statistical inferences, *Proceeding of Business and Economic Statistics Section of the American Statistical Association*, 1–10.

Shope, J T., Waller, P.F., Raghunathan, T.E., Patil, S.P. (1999) Adolescent antecedents of risky driving behavior in young adulthood: Parental influences and substance abuse, *Proceedings of NAAA*.

Heeringa, S.G., Little, R.J. and Raghunathan, T.E. (2000). Multivariate imputation of coarsened survey data on household wealth. "Survey non-response", Groves, R., Dillman, D., Eltinge, J., and R. Little, eds, New York: John Wiley.

Tang, G., Little, R., Raghunathan, T.E. (2000). Analysis of bivariate incomplete monotone data, *ASA Proceedings of the Biometrics Section*, 86–89.

Lepkowski, J. M., Couper, M.P., Mathiowetz, N., Tourangeau, R., Raghunathan, T.E. (2000). Survey methodology research for improved health statistics, *ASA Proceedings of the Section on Survey Research Methods*, 533–538.

[http://www.amstat.org/sections/srms/proceedings/papers/2000\\_087.pdf](http://www.amstat.org/sections/srms/proceedings/papers/2000_087.pdf)

### **Technical Reports**

Raghunathan, T. E. (1984). A new model selection criterion, Department of Statistics, Harvard University.

Raghunathan, T. E. (1987). Bootstrap Bayes, Department of Biostatistics, University of Washington.

Raghunathan, T E, VanHoewyk, J., Solenberger, P (2002). IVEware, A software for the analysis of complex survey data with or without multiple imputations ([www.isr.umich.edu/src/smp/ive](http://www.isr.umich.edu/src/smp/ive))

Raghunathan T, Dong Q. Analysis of Variance from Multiply Imputed Data Sets. Ann Arbor.1001:48109.

Kreuter F, Olson K, Wagner J, Yan T, Ezzati-Rice T, Casas-Cordero C, et al. Maryland Population Research Center.

Kaciroti N, Raghunathan TE. Bayesian Sensitivity Analysis of Incomplete Data Using Pattern-Mixture and Selection Models Through Equivalent Parameterization. Ann Arbor.1001(48109):48109.

Raghunathan, T.E., (2001). Combining Information from Multiple Sources for Small Area Estimation of Crime Rates, Working paper presented at the National Academy of Sciences Panel on Criminology.

Elliott, M.R., Raghunathan, T.E., Shope, J.T. (2001). The effect of duration and delay of licensure on risk of crash: A Bayesian analysis of repeated time-to event measures, *ASA Proceedings of the Joint Statistical Meetings*.  
<http://proquest.umi.com/pqdweb?index=7&did=126353541&SrchMode=3&sid=4&Fmt=6&VIn st=PROD&VType=PQD&RQT=309&VName=PQD&TS=1157058931&clientId=17822&aid=1&cfc=1>

Raghunathan, T.E. (2003). Evaluation of Inferences from Multiple Synthetic Data Sets Created Using Semiparametric Approach, Working paper presented at the National Academy of Sciences Panel on Confidentiality Protection and Disclosure Limitation.

Raghunathan, T. E., Bondarenko, I., (2007) Diagnostics for Multiple Imputation.

### **Professional Activities**

Elected as a Representative of ASA Social Statistics Section to the ASA Council of Sections 2003-2005

Member of American Statistical Association

President-elect, President and Past-president 1996-1998, Ann Arbor Chapter of American Statistical Association

Refereed articles for Biometrics, Biometrika, Journal of American Statistical Association, Journal of Official Statistics, Survey Methodology, Technometrics, Statistics in Medicine, American Journal of Epidemiology

Statistical Reviewer for various other medical journals

Presented an invited paper on small area estimation of crime rates by combining data from the National Crime Victimization Survey and Uniform Crime Reports

Member of ad hoc NIH panel on “Measures of Health Disparity”

Member of ad hoc ASA panel on Imputation issues in Uniform Crime Reports

### **Awards and Achievements**

Richard D. Remington Lecturer, American Heart Association Annual Meeting, 2012

First author paper (JASA, 2007) received best paper award from the Center for Disease Control and Disease Prevention, 2008.

The small area estimation project received prestigious SPAIG (Statistical Partnership of Academia, Industry and Government) award from the American Statistical Association, 2007

Elected as a Fellow of the American Statistical Association, 2003.

1994 Outstanding Teaching Award, School of Public Health and Community Medicine, University of Washington, Seattle, Washington.

Visiting Fellow, Department of Statistics, University of New South Wales, Kensington, Australia, July-August 1991.

Frank Wilcoxon prize for the best applications paper in technometrics, 1988.

Parker Merit Fellowship, Harvard University, 1986.

Comer Memorial Fund Award, Miami University, 1983.

Three gold medals and two cash prizes, Nagpur University, Nagpur, India, 1979.  
Government of India Merit Fellowship, 1977.

Rank Holder, Bachelor of Science Program, Nagpur University, Nagpur, India, 1977.

### **Supervised Doctoral and Master Theses**

Fellingham, G., Robust Analysis of Longitudinal data (Ph.D., 1989).

Ii, Y. Generalized linear models with covariates measured with error (Ph.D., 1993).

Myles, J., Small area estimation of AIDS cases in the state of Washington (Ph.D., 1992).

Bohidar, N., Robust Analysis of multicenter clinical trial data (Ph.D., 1993).

Holck, Peter, Simple adjustments for variance estimators in logistic regression when sampling with varying probabilities of selection (M.S., 1992).

Steve Heeringa (Co-chair), Analysis of coarsened multivariate data (Ph.D., 1999)

Nicholas Kaciroti, Analysis of incomplete longitudinal data with count and ordinal outcomes (Ph.D., 2002).

Sujatha Patil, A Bayesian Approach for Latent Trajectory Analysis (Ph.D., 2003).

Dawei Xie, Combining information from multiple surveys for small area estimation (Ph.D., 2004)

Yulei He Multiple Imputation for Continuous Non-normal Missing Data (Ph. D. 2005)

Mandi Yu Disclosure Risk Assessments and Control (Ph.D. 2008)

James Wagner Adaptive Survey Design to Reduce Nonresponse Bias. (Ph.D. 2008)

Joe Sakshaug Synthetic Data for Small Area Estimation (Ph.D. 2011).

Qi Dong, Combining Information from Multiple Complex Surveys. (Ph.D. 2012)

### **Courses Taught**

Applied regression analysis, Advanced linear models, Generalized linear models, Design of experiments, Sample survey Methods, Analysis of incomplete data, Empirical Bayes methods, Introduction to statistics for health sciences, Statistical consulting, Advanced theory of statistics, Applied Bayesian methods, Analysis of complex survey data, Applied Sampling, Repeated Measures Analysis, Bayesian Inference in Surveys and short courses on various other topics.