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## **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**

**September 2002-present:** Professor of Biostatistics, School of Public Health,  
Research Professor, Survey Research Center, University of Michigan  
**August 2014-August 2019:** Director, Survey Research Center, Institute of Social Research,  
Professor of Biostatistics, School of Public Health, Research Professor, Survey  
Research Center, University of Michigan  
**January 2010-July 2014:** Chair, Department of Biostatistics, School of Public  
Health, University of Michigan  
**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

## Books

1. Raghunathan, Trivellore E., Berglund, Patricia, Solenberger, Peter 2018 Multiple Imputation in Practice: Applications using IVEware. CRC Press.
2. Raghunathan, Trivellore E. 2016. Missing Data Analysis in Practice. Boca Raton: CRC Press.

## Publications in refereed journals

1. Warschausky, S., Raghunathan, T., Berglund, P., Larson, J. C. G., Huth-Bocks, A., Taylor, H. G., ... Lajiness-O'Neill, R. (2025). Latent motor growth trajectories of term and preterm infants based on caregiver report. *Child Neuropsychology*, 1–13. <https://doi.org/10.1080/09297049.2025.2451323>
2. Raghunathan, T. (2025). 167 Synthetic Data. In *Handbook of Sharing Confidential Data: Differential Privacy, Secure Multiparty Computation, and Synthetic Data* (pp. 167-178). CRC Press.
3. Lasutschinkow, P. C., Bo, J., Warschausky, S., Raghunathan, T., Berglund, P., Huth-Bocks, A., Taylor, H. G., Staples, A. D., Cano, J., Le Doux, G. N., Lukomski, A., Larson, J. C. G., & Lajiness-O'Neill, R. (2025). Convergent Validity Between the Motor Domain of PediaTrac™ and Ages and Stages in Term and Preterm Infants at 2, 4, 6, and 9 Months of Age. *Assessment*, 32(1), 90-101. <https://doi.org/10.1177/10731911241241144>
4. Kleinsasser, M.J., Mistry, R., Hsieh, HF. et al. Person explanatory multidimensional item response theory with the instrument package in R. *Behav Res* 56, 8540–8551 (2024). <https://doi.org/10.3758/s13428-024-02490-5>
5. Singh, L., Bao, L., Bode, L. et al. Understanding the rationales and information environments for early, late, and nonadopters of the COVID-19 vaccine. *npj Vaccines* 9, 168 (2024). <https://doi.org/10.1038/s41541-024-00962-5>
6. Ghosh, K., Stewart, S.T., Raghunathan, T. et al. Medical visits and mortality among dementia patients during the COVID-19 pandemic compared to rates predicted from 2019. *BMC Geriatr* 24, 727 (2024). <https://doi.org/10.1186/s12877-024-05298-2>
7. Yu, W., Elliott, MR., Raghunathan, T. (2024) Three approaches to improve inferences based on survey data collected with mixed-mode designs, *Journal of Survey Statistics and Methodology*, Smae012, <https://doi.org/10.1093/jssam/smae012>
8. Burton, P., Lee, S., Raghunathan, T., West, BT. (2024) Combining information from multiple data sources to improve sampling efficiency. *MDA, Methods, Data and Analysis*, DOI: <https://doi.org/10.12758/mda.2024.03>
9. Raghunathan, T., (2024) Modeling in Sample Surveys: Discussion of Professor Valliant's Hansen Lecture 2022, *Journal of Survey Statistics and Methodology*, 12,311-319. <https://doi.org/10.1093/jssam/smae001>
10. Warschausky, S., Gidley Larson, JC., Raghunathan, T., Berglund, P., Huth-Bocks, A., Taylor, GH, Staples, AD., Lukomski, A., Barks, J., Lajiness-O'Neill, R., (2023). Longitudinal caregiver-reported motor development in infants born at term and preterm *Developmental Medicine and Child Neurobiology*, <https://doi.org/10.1111/dmcn.15816>

11. Lobermeier, M., Levick, S., Raghunathan, T., Berglund, P., Warschausky, S., Huth-Bocks, A., Taylor, G.H., Staples, A., Cano, J., Lajiness-O’Neill, R., (2023). *Journal of the International Neuropsychological Society*. doi:10.1017/S135561772300927X
12. Raghunathan, T., Kirtland, K.A., Patel Murthy, B., Li, J., White, K., Gibbs-Scharf, L., Harris, L., Zell, E. R. (2023). Constructing State and National Estimates of Vaccination Rates from Immunization Information Systems, *Journal of Survey Statistics and Methodology*, smac042, <https://doi.org/10.1093/jssam/smac042>
13. Kirtland, K. A., Raghunathan, T., Patel Murthy, B., Li, Ji, White, K., Gibbs-Scharf, L., Harris, L., Zell, E. R. (2022) Estimating vaccination coverage for routinely recommended vaccines among children aged 24 months and adolescents aged 13 through 17 years using data from immunization information systems in the United States, *Vaccine*, Volume 40, Issue 52, Pages 7559-7570, <https://doi.org/10.1016/j.vaccine.2022.10.070>.
14. Connery, A. K., Raghunathan, R.S., Colbert, A.M., Erdodi, L., Warschausky, S., ; Huth-Bocks, A., Gerry T. H., Raghunathan, T. Berglund, P., Staples, A.D., Lukomski, A., Kirkland, J., Cano, J., Lajiness-O’Neill, R. (2022). The influence of sociodemographic factors and response style on caregiver report of infant developmental status. *Frontiers in pediatrics*. Doi:10.3389/fped.2022.1080163
15. Lajiness-O’Neill, R., Warschausky, S., Huth-Bocks, A., Taylor, H. G., Berglund, P., Staples, A. D, Lukomski, A., Brooks, J., Cano, J., Raghunathan, T. (2023). Caregiver-reported development in term and preterm infants from birth to nine months of age: Psychometrics of the PediaTrac TM social/communication/cognition domain. *Psychological assessment*. American Psychological Association. Doi:10.1037/pas0001235
16. Lajiness-O’Neill, R., Raghunathan, T., Berglund, P., Huth-Bocks, A., Taylor, H. G., Staples, A. D., Brooks, J., Lukomski, A., Gidley, L., Jennifer C. , Warschausky, S., Swick, C., Goldstein, S., Lobermeier, M., Hicks, A., Cano, J., Franz, S., Dixon, N., Oard, K., Dieter, L., Kirkland, J., Robbins, Y., Gorjanc, E. (2023). Caregiver-reported newborn term and preterm motor abilities: psychometrics of the PediaTracTM Motor domain. *Pediatric research*, 93-1736-1744. Doi: 10.1038/s41390-022-02312-4
17. Hsieh, H. , Mistry, R. , Kleinsasser, M. J. , Puntambekar, N., Gupta, P.C. , Raghunathan, T.,; McCarthy, W., Córdova, D., Maharjan, G., Desai, M. B., Narake, S., Pednekar, M.S., (2023). “Family Functioning within the Context of Families with Adolescent Children in Urban India.” *Family Process*, vol. 62, pp. 287–301, doi:10.1111/famp.12784.
18. Yu, M. He, Y. and Raghunathan T., (2022). A Semiparametric Multiple Imputation Approach to Fully Synthetic Data for Complex Surveys, *Journal of Survey Statistics and Methodology*, Volume 10, Issue 3, Pages 618–641, <https://doi.org/10.1093/jssam/smac016>
19. Si, Y., Heeringa, S., Johnson, D., Little, R., Liu, W., Pfeffer, F., Raghunathan, T.. Multiple Imputation with Massive Data: An Application to the Panel Study of Income Dynamics, 2021 *Journal of Survey Statistics and Methodology*. Doi:<https://doi.org/10.1093/jssam/smab038>
20. Cutler, D. M., Ghosh, K., Messer, K., Raghunathan, T., Rosen, A. B., Stewart, S., A Satellite Account Health in the United States. *American Economic Review*, 2022, 112(2) 494:533. DOI: 10.1257/aer.20201480
21. Lajiness-O’Neill R, Warschausky S, Huth-Bocks A, Taylor, G, Brooks, J., Lukomski, A., Raghunathan, T. E. et al PediaTrac V.3.0 protocol: a prospective, longitudinal study of the

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  23. Imbriano, PM, Raghunathan, TE . Three-Form Split Questionnaire Design for Panel Surveys, *Journal of Official Statistics*, 36(4), 827-854. 2020. doi: <https://doi.org/10.2478/jos-2020-0040>
  24. Hokayem, C. Raghunathan, T., Rothbaum, R. Match bias or nonignorable nonresponse? Improved imputation and administrative data in the CPS ASEC, *Journal of Survey Statistics and Methodology*, 10, 81-114, 2022, doi:<https://doi.org/10.1093/jssam/smaa022>
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  29. Raghunathan, T.E., Synthetic Data. *Annu. Rev. Stat. Appl.*, 2326-8298, 2021 doi:10.1146/annurev-statistics-040720-031848.
  30. Liu B, Parsons V, Feuer EJ, et al. Small Area Estimation of Cancer Risk Factors and Screening Behaviors in US Counties by Combining Two Large National Health Surveys. *Preventing Chronic Disease*. 2019 Aug;16:E119. DOI: 10.5888/pcd16.190013.
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  32. Siddique, J., Daniels, M. J., Carroll, R. J., Raghunathan, T. E., Stuart, E. A. and Freedman, L. S. (2019), Measurement error correction and sensitivity analysis in longitudinal dietary intervention studies using an external validation study. *Biom*. doi:10.1111/biom.13044
  33. Cutler, D. M., Ghosh, K., Messer, K. L., Raghunathan, T. E., Stewart, S. T., & Rosen, A. B.

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34. Sakshaug, J., Cernat, A., Raghunathan, T.E. Do Sequential Mixed-Mode Surveys Decrease Nonresponse Bias, Measurement Error Bias, and Total Bias? An Experimental Study, *Journal of Survey Statistics and Methodology*, smy024, <https://doi.org/10.1093/jssam/smy024>
  35. Mistry, R., Pednekar, M. S., Gupta, P. C., Raghunathan, T. E., Appikatla, S., Puntambekar, N., et al. Longitudinal study of adolescent tobacco use and tobacco control policies in india. *BMC Public Health*, 2018:18(1), 815.
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- (TULIP) Project. In *Neurourology and Urodynamics* (Vol. 35, pp. S376-S377)
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  47. Newman, D., Sampsel, C., Raghunathan, T.E., Miller, J., Kirk, K., Kimmel, R., DiCamillo, M. MP65-19 Translating Unique Learning for Incontinence Prevention, the TULIP Project: Comparative Effectiveness Study of a Diverse Population of Adult Women Receiving Bladder Health Education. *The Journal of Urology*, 2016:4(195):e871-e872. DOI: 10.1016/j.juro.2016.02.1230
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## Other Publications

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

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

## **Professional Activities**

Chair, National Academy of Sciences, A Roadmap for Disclosure Avoidance in the Survey of Income and Program Participation (SIPP).- Current

Member, National Academies of Science, BEA Expert Meeting on Exploiting Commercial Data for Official Economic Statistics 2015

Member, Board of Scientific Counselors, National Center for Health Statistics, Center for Disease Control and Prevention 2015

Panel on Improving Federal Statistics for Policy and Social Sciences Research Using Multiple Data Sources and State-of-the-Art Estimation Methods 2015

Member, American Statistical Association Committee on Law & Justice Statistics 2014

Member, Technical Working Group for the study on The Extent of Trafficking in the Supplemental Nutrition Assistance Program (SNAP) 2013

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

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**

Best Research Award from National Institute of Health Care Management Foundation, 2023 for the paper: Cutler, D. M., Ghosh, K., Messer, K., Raghunathan, T., Rosen, A. B., Stewart, S., A Satellite Account Health in the United States. *American Economic Review*, 2022, 112(2) 494:533. DOI: 10.1257/aer.20201480

Monroe Sirken Award from American Statistical Association for Contributions to Interdisciplinary Survey Methodology 2022

Senior Fellow (2021-2024). Michigan Society of Fellows

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**

Wenshan Yu, Improving Inferences Based on Survey Data Collected Using Mixed-mode Designs. (Ph.D. 2024)

Paul Imbriano, Methods for Improving Efficiency of Planned Missing Data Designs. (Ph.D. 2017)

Julia Lee, Adaptive Design to Adjust for Unit Nonresponse Using an External Micro-level Benchmark. (Ph.D. 2016)

Jian Zhu, Assessment and Improvement of a Sequential Regression Multivariate Imputation Algorithm. (Ph.D. 2016)

Hanzhi Zhou, Accounting for Complex Sample Designs in Multiple Imputation Using the Finite Population Bayesian Bootstrap. (Ph.D. 2014)

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

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

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

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

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

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

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

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

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

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

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)

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

### **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.