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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**

**August 2014-present:** Director, Survey Research Center, Institute of Social Research,  
Professor of Biostatistics, School of Public Health, Research Professor, Survey  
Research Center, University of Michigan  
**January 2010-2014:** 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

## 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. MacKinnon, N., Ge, W., Han, P., Siddiqui, J., Wei, J. T., Raghunathan, T., et al. (2019). NMR-based metabolomic profiling of urine: Evaluation for application in prostate cancer detection. *Natural Product Communications*, 14(5), 1934578X19849978.
2. Rubenstein, J. H., Jiang, L., Waljee, A. K., Metko, V., Nofz, K., Khodadost, M., et al. (2019). Sa1141 – validation and comparison of tools for selecting individuals for screening for barrett's esophagus and early neoplasia. *Gastroenterology*, 156(6), S-282; S-283.
3. Rubenstein, J. H., Jiang, L., jacob, k. e., Chen, J. W., Metko, V., Khodadost, M., et al. (2019). Tu1172 – incomplete response of symptoms of gastroesophageal reflux disease to proton pump inhibitors poorly predicts erosive esophagitis and Barrett's esophagus. *Gastroenterology*, 156(6), S-970; S-971.
4. 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
5. Cutler, D. M., Ghosh, K., Messer, K. L., Raghunathan, T. E., Stewart, S. T., & Rosen, A. B. (2019). Explaining the slowdown in medical spending growth among the elderly, 1999–2012. *Health Affairs*, 38(2), 222-229. DOI:10.1377/hlthaff.2018.05372
6. 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>
7. 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. . Longitudinal study of adolescent tobacco use and tobacco control policies in india
8. Wu, M., Diez-Roux, A., Raghunathan, T. E. and Sánchez, B. N., FPCA-based method to select optimal sampling schedules that capture between-subject variability in longitudinal studies. *Biometrics*. 2018:74(1):229-238. PMID: PMC5677595 DOI:10.1111/biom.12714
9. Griebing, T., Diokno, A., Newman, D., Burgio, K., Low, L., Maddens, M., Subak, L., Goode, P., Sampsel, C., Robinson, A., Raghunathan, TE., Boura, J., McIntyre, D., Training Fidelity and Quality Control in Clinical Behavioral Research for Urinary incontinence: The Gladiolus Trail, *Neurourology and Urodynamics*, 2018:37, S633-S634.
10. Newman, D., Diokno, A., Burgio, K., Low, L., Griebing, T., Maddens, M., Subak, L., Goode, P., Sampsel, C., Robinson, A., Raghunathan, TE., Boura, J., McIntyre, D., Magno, A., Stambakio, H., Randomized Controlled Trial of Group-Administered Behavioral

Treatment in Reducing Urinary Incontinence in Adult Women, *Neurourology and Urodynamics*, 2018:37, S564-S565.

11. Yucel, R.M., Zhao, E., Schenker, N., Raghunathan TE.; Sequential Hierarchical Regression Imputation, *Journal of Survey Statistics and Methodology*, Volume 6, Issue 1, 1 March 2018, Pages 1–22. <https://doi.org/10.1093/jssam/smx004>
12. Wagner, T. H., Scott, J. Y., Newman, D. K., Miller, J. M., Kirk, K., DiCamillo, M. A., et al. (2017). Costs and sustainability of a behavioral intervention for urinary incontinence prevention DOI:10.1016/j.urpr.2017.05.003
13. Lohr, Sharon L.; Raghunathan, Trivellore E. Combining Survey Data with Other Data Sources. *Statist. Sci.* 32 (2017), no. 2, 293--312. DOI:10.1214/16-STS584. <http://projecteuclid.org/euclid.ss/1494489817>.
14. Rosen, AB, Ghosh, K, Pape ES, Perrailon MC, Bondarenko, I, Messer, KL, Raghunathan, TE, Stewart ST, Cutler, DM. Strengthening National Data to Better Measure What We Are Buying in Health Care: Reconciling National Health Expenditures with Detailed Survey Data. National Bureau of Economic Research, March 2017, W23290, DOI: 10.3386/w23290.
15. Sampsel, CM, Newman, DK, Miller, J.M., Kirk, K., DiCamillo, MA, Wagner, T.H., Raghunathan, T.E., Diokno, AC. A Randomized Controlled Trial to compare two scalable interventions for Lower Urinary Tract Symptom prevention: Main outcomes of the TULIP Study. *The Journal of Urology*, 2016:197:(6):1480-1486. DOI: 10.1016/j.juro.2016.12.099.
16. Newman, D., Sampsel, C., Raghunathan, T.E., Miller, J., & Kirk, K. (2016, August). Educating Adult Women About Bladder Health: The Translating Unique Learning for UI Prevention (TULIP) Project. In *Neurourology and Urodynamics* (Vol. 35, pp. S376-S377).
17. Zhou, H., Elliott, M., Raghunathan, T. E. Synthetic Multiple-Imputation Procedure for Multistage Complex Samples. *Journal of Official Statistics*, 2016:32(1), pp. 231-256. Retrieved 17 May. 2016, PMID: PMC5542708 DOI:10.1515/jos-2016-0011
18. Zhou, H., Elliott, M., Raghunathan, T. E. Multiple Imputation in Two-stage Cluster Samples Using the Weighted Finite Population Bayesian Bootstrap. *Journal of Survey Statistics and methodology*, 2016:Jan 31, PMID: PMC5719896 DOI: 10.1093/jssam/smv031
19. 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
20. Bondarenko, I., Raghunathan, T. E. Graphical and numerical diagnostic tools to assess suitability of multiple imputations and imputation models. *Statistics in Medicine*, 2016: DOI: 10.1002/sim.6926
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- Study of Atherosclerosis. *Environmental Health Perspectives*. 2015;123(2):144-151. PMID: PMC4314244 DOI:10.1289/ehp.1307951
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- Cholestatic Infants Enrolled in the Biliary Atresia Research Consortium (BARC). *Gastroenterology*. 2010;138(5):S-773. DOI: 10.1016/S0016-5085(10)63565-2
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202. Diehr P, Patrick D, Hedrick S, Rothman M, Grembowski D, Raghunathan TE, et al. Including deaths when measuring health status over time. *Medical Care*. 1995;33(4 Suppl) AS164-AS72. PubMed Central PMCID: PMC7723444.
203. Siscovick DS, Raghunathan TE, Psaty BM, Koepsell TD, Wicklund KG, Lin X, et al. Diuretic Therapy for Hypertension and the Risk of Primary Cardiac Arrest. *New England Journal of Medicine*. 1994;330(26):1852-7. DOI: DOI:10.1056/NEJM199406303302603.
204. Raghunathan TE. Monte carlo methods for exploring sensitivity to distributional assumptions in a bayesian analysis of a series of  $2 \times 2$  tables. *Statistics in Medicine*. 1994;13(15):1525-38. DOI: 10.1002/sim.4780131504. PMID:7973231
205. Moser M, Gifford R, Siscovick DS, Koepsell TD, Raghunathan T. Diuretic therapy and the risk of cardiac arrest. *New England Journal of Medicine*. 1994;331(18):1235-6. PMID:7935674
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207. Raghunathan T. A quasi-empirical Bayes method for small area estimation. *Journal of the American Statistical Association*. 1993:1444-8.
208. Kristal AR, White E, Davis JR, Corycell G, Raghunathan T, Kinne S, et al. Effects of enhanced calling efforts on response rates, estimates of health behavior, and costs in a telephone health survey using random-digit dialing. *Public Health Reports*. 1993;108(3):372. PubMed Central PMCID: PMC1403389.
209. Raghunathan TE. Pooling controls from different studies. *Statistics in Medicine*. 1991;10(9):1417-26. DOI: 10.1002/sim.4780100909.
210. Li KH, Raghunathan TE, Rubin DB. Large-sample significance levels from multiply imputed data using moment-based statistics and an F reference distribution. *Journal of the American Statistical Association*. 1991:1065-73.
211. Li KH, Meng XL, Raghunathan TE, Rubin DB. Significance levels from repeated p-values with multiply-imputed data. *Statistica Sinica*. 1991;1(1):65-92.
212. Raghunathan T, Rubin DB. An Application of Bayesian Statistics Using. Data quality control: theory and pragmatics. 1990;112:229.
213. 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**

Abowd, J.M., Abramowitz, J., Levenstein, M., McCue, K., Patki, D., Raghunathan, T.E., Rodgers, A.M., Shapiro, M.D., Wasi, N. Optimal Probabilistic Record Linkage: Best Practice for Linking Employers in Survey and Administrative Data. Center for Economic Studies, US Census Bureau Working Papers, 19-08.

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.

[http://www.amstat.org/sections/srms/Proceedings/papers/1997\\_020.pdf](http://www.amstat.org/sections/srms/Proceedings/papers/1997_020.pdf)

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.

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Abowd, J., Abramowitz, J., Levenstein, M., McCue, K., Patki, D., Rodgers, A., Shapiro, M., Wasi, N. (2019) Optimal Model-Based Probabilistic Linkage: Best Practice for Linking Employers in Survey and Administrative Data.

Drechsler, Jörg; Kiesl, Hans; Meinfelder, Florian; Raghunathan, Trivellore E; Rubin, Donald B; et al. Journal of Official Statistics; Stockholm Vol. 35, Iss. 1, (2019): 285-286.  
DOI:10.2478/jos-2019-0013

## 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)

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&VInst=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.

Raghunathan, T. E., Solenberger, P., Berglund, P., VanHoewyk, J., (2017). IVEware:

Imputation and Variance Estimation Software (Version 0.3)  
([www.isr.umich.edu/src/smp/ive](http://www.isr.umich.edu/src/smp/ive))

### **Professional Activities**

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

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**

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

Keng-Han Li, Statistical Methods for Detecting Rare Variant Associations in Family-Based 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 (Co-chair), 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)

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