

Arnab Maity

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Last update: 2018-10-26

Education

2008 Ph.D., Statistics

Department of Statistics, Texas A&M University
Co-advisors: Dr. Raymond J. Carroll and Dr. Yanyuan Ma
Thesis: Efficient Inference in General Semiparametric Regression Models

2005 MS, Statistics

Department of Statistics, Texas A&M University
Co-advisors: Dr. Raymond J. Carroll and Dr. Bani Mallick

2003 Postdoctoral Fellow

Department of Biostatistics, Harvard School of Public Health
Co-mentors: Dr. Xihong Lin and Dr. Russ Hauser

Experience

2016 – current

Associate Professor

Department of Statistics, North Carolina State University

2010 – 2016

Assistant Professor

Department of Statistics, North Carolina State University

2008 – 2010

Postdoctoral Fellow

Department of Biostatistics, Harvard School of Public Health
Co-mentors: Dr. Xihong Lin and Dr. Russ Hauser

Research Keywords

Efficient estimation in semiparametric regression models, Functional data analysis, Geneenvironment interaction, Kernel methods, Measurement error, Nonparametric regression, Repeated measures, Semiparametric efficiency, Semiparametric regression, Spline smoothing.

Grants

NCSU Faculty Research and Professional Development (FRPD) grant

Novel Functional Data Analytic Approach for Integrative Analysis of Multiplatform Genomic Data

Role/Duration/Amount: Principal Investigator / 2014 – 2015 / \$2,000

NCSU Faculty Research and Professional Development (FRPD) grant **Statistical Tools for Analyzing Functional Data in Genomic Studies**

Role/Duration/Amount: Principal Investigator / 2012 – 2013 / \$2,000

NIH Pathway to independence award (K99/R00)

Statistical Methods for Analysis of High-Dimensional Gene and Environment Data

Role/Duration/Amount: Principal Investigator / 2010 – 2014 / \$733,885

Harvard NIEHS Center for Environmental Health

Statistical Methods for Analysis of High-Dimensional Epigenetic and Environmental Data

Role/Duration/Award: Principal Investigator / 2009 – 2010 / \$15,000

Honors and Awards

ASA Noether Young Researcher Award, 2014.

Thank a teacher award, NCSU, Spring 2012, Fall 2012, Spring 2016.

NSF Travel Award, AISC Conference, Greensboro, NC, 2012.

Innovative Biomedical Application Award, SRCOS SRC Conference, 2008.

R. L. Anderson Student Paper Award, SRCOS SRC Conference, 2008.

ASA Travel Award, SRCOS SRC Conference, Charleston, SC, 2008.

Best Student Paper Award (Theory Section), IISA Conference, 2008.

NSF Travel Award, Nonparametric Conference, South Carolina, 2007.

Emanuel Parzen Graduate Research Fellowship, Texas A&M University, 2007.

William S. Connor Award, Texas A&M University, 2006.

Emanuel Parzen Graduate Research Fellowship, 2006.

ELI Lilly Fellowship, Texas A&M University, 2006.

Distinguished Student Paper Award, ENAR, 2006.

Eva L. & Lee H. Smith Graduate Fellowship, Texas A&M University, 2005.

AUF Fellowship, Texas A&M University, 2003-2004.

Regents' Fellowship, Texas A&M University, 2003-2004.

Editorial Services

2017 - current: Associate Editor, Journal of the Korean Statistical Society.

2012 - 2016: Associate Editor, Sankhya - The Indian Journal of Statistics, Series A.

2012 - 2016: Associate Editor, Sankhya - The Indian Journal of Statistics, Series B.

Refereed for Journals

Reviewed more than 65 articles for 35 journals including: Annals of Applied Statistics; Annals of Statistics; Biometrics; Biostatistics; Computational Statistics and Data Analysis; Epidemiologic Methods; Genetics; Journal of Agricultural, Biological, and Environmental Statistics; Journal of the Korean Statistical Society; Journal of Machine Learning Research; Journal of Nonparametric Statistics; Journal of the American Statistical Association; PLOS ONE; Sankhya; Scandinavian Journal of Statistics; Statistical Science; Statistics in Biosciences; Statistics in Medicine; Statistical Methodology; Statistica Sinica.

Full review records are at: <https://publons.com/author/1280146/arnab-maity>
(<https://publons.com/author/1280146/arnab-maity>)

Grant Reviewer/Panel Member

NIH ZMH1 ERB-D (03) R - Emotional Regulation in Aging (Panel member, 2016)

NSA Mathematical Sciences Grant Program (external reviewer, 2015)

NSA Mathematical Sciences Grant Program (external reviewer, 2013)

NSA Mathematical Sciences Grant Program (external reviewer, 2012)

Publication

Pending

- 1 Alam, K., **Maity, A.**, Sinha, S. K. and Sattar, A. Joint modeling of heterogeneous outcomes.
 - 2 Hale, S. L., **Maity, A.** and Baladandayuthapani, V. Causal Functional Mediation Analysis Using Principal Components with an Application to Multiple Myeloma Genomics.
 - 3 Li, M., Wang, K., **Maity, A.** and Staicu, A-M. Inference in Functional Linear Quantile Regression.
 - 4 Coles, A., **Maity, A.**, Mayanam G., Baladanyauthapani, V. Nonlinear Functional Regression Models with Application to Copy Number Data.
 - 5 Clark, J. J., **Maity, A.**, Harmon, Q., Engel, S. M., Epstein, M. P. and Wu, M. C. Gene and Region Based Testing of Gene-Gene Interactions for Quantitative Traits with the SNP-Set Kernel Interaction Test (SKIT).
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2018

- 6 Zhao, N., Clark, J., **Maity, A.**, and Wu, M. C. (2018). Composite Kernel Machine Regression based on Likelihood Ratio Test for Joint Testing of Genetic and Gene-environment Interaction Effect, *Biometrics*. Accepted for publication.
 - 7 Davenport, C. A., **Maity, A.**, and Baladandayuthapani, V. (2018). Functional Interaction-based Nonlinear Models with Application to Multi-platform Genomics Data, *Statistics in Medicine*. Accepted for publication.
 - 8 Tekbudak, Y. M., Cordoba, M. A., **Maity, A.** and Staicu, A-M. (2018). A Comparison of Testing Methods in Scalar-on-Function Regression, *Advances in Statistical Analysis*. Accepted for publication.
 - 9 Kim, J., **Maity, A.** and Staicu, A-M. (2018). Additive Nonlinear Functional Concurrent Model, *Statistics and Its Interface*, **11**, 669 - 685.
 - 10 Bandyopadhyay, S. and **Maity, A.** (2018). Asymptotic Theory for Varying Coefficient Regression Models with Spatially Dependent Data, *Annals of the Institute of Statistical Mathematics*, **70**, 745 - 759.
 - 11 **Maity, A.**, Zhao, J., Sullivan, P. and Tzeng, J-Y. (2018). Inference on Phenotype-Specific Effects of Genes using Multivariate Kernel Machine Regression. *Genetic Epidemiology*, **42**, 64 - 79.
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- 12 Luo, Y., **Maity, A.**, Wu, M.C., Smith, C., Duan, Q., Li, Y., Tzeng, J.Y. (2018). On the substructure controls in rare variant analysis: principal components or variance components? *Genetic Epidemiology*, 43, 276-287.

 - 13 Kong, D., **Maity, A.**, Hsu, F-C, and Tzeng, J-Y. (2018). Rejoinder to “A note on testing and estimation in marker-set association study using semiparametric quantile regression kernel machine. *Biometrics*, 74, 767 - 768.

 - 14 Kim, J., Staicu, A-M., **Maity, A.**, Carroll, R.J. and Ruppert. D. (2018). Additive Function-on-Function Regression, *Journal of Computational and Graphical Statistics*, 27:1, 234 - 244.

 - 15 Davenport, C., **Maity, A.** and Tzeng, J-Y. (2018). A Powerful Test for SNP Effects on Multivariate Binary Outcomes Using Kernel Machine Regression, *Statistics in Bioscience*, 10, 117 - 138.
-

2017

- 16 Terry, W., Zhang, H., **Maity, A.**, Arshad, H. and Karmaus, W. (2017). Unified Variable Selection in Semi-parametric Models, *Statistical Methods in Medical Research*, 26, 2821 - 2831.

 - 17 **Maity, A.** (2017). The Linear Model and Hypothesis: A General Unifying Theory

 - 18 Zhan, X., Tong, X., Zhao, N., **Maity, A.**, Wu, M.C., Chen, J. (2017). A Small-sample Multivariate Kernel Machine Test for Microbiome Association Studies, *Genetic Epidemiology*, 41, 210 - 220.

 - 19 Luo, Y., McCullough, L. E., Tzeng, J-Y., Darrah, T., Vengosh, A., Maguire, R. L., **Maity, A.**, Murphy, S. K., Mendez. M. A., Hoyo, C. (2017). Maternal blood cadmium, lead and arsenic levels, nutrient combinations, and offspring birthweight, *BMC Public Health*, 17:354.

 - 20 **Maity, A.** (2017). Nonparametric Functional Concurrent Models, *Wiley Interdisciplinary Reviews: Computational Statistics*, 9, e1394.
-

2016

- 21 Kong, D., Staicu, A-M. and **Maity, A.** (2016). Classical Testing in Functional Linear Models, *Journal of Nonparametric Statistics*, 28, 813 - 838.

 - 22 Usset, J., Staicu, A-M. and **Maity, A.** (2016). Interaction Models for Functional Regression, *Computational Statistics and Data Analysis*, 94, 317 - 329.

 - 23 Kong, D., **Maity, A.** and Tzeng, J-Y. (2016). Testing and Estimation in Marker-Set Association Study Using Semiparametric Kernel Quantile Regression, *Biometrics*, 72, 364 - 371.

 - 24 Zhang, Y., Staicu, A-M. and **Maity, A.** (2016). Testing for Additivity in Non-parametric Regression, *The Canadian Journal of Statistics*, 44, 445 - 462.

 - 25 Zhang, H., **Maity, A.**, Arshad, H., Holloway, J. and Karmaus, W. (2016). Variable Selection in Semi-parametric Models, *Statistical Methods in Medical Research*, 25, 1736 - 1752.
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- 26 Tzeng, J. Y. and **Maity, A.** (2016). Marker-set Approaches for Assessing Gene-Environment and Gene-Gene Interactions at Gene Level, in *Statistical Approaches to Gene-Environment Interactions for Complex Phenotypes*, Cambridge, MA: MIT Press.
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2015

- 27 Wang, Z., Neely, M.L., **Maity, A.** and Tzeng J.Y. (2015). Complete Effect-Profile Assessment in Association Studies with Multiple Genetic and Multiple Environmental Factors, *Genetic Epidemiology*, 39, 122 - 133.
-
- 28 Usset, J., **Maity, A.**, Staicu, A-M. and Schwartzman, A. (2015). Glacier Terminus Estimation from LandSat Image Intensity Profiles, *Journal of Agricultural, Biological, and Environmental Statistics*, 20, 279 - 298.
-
- 29 Zhao, N., Bell, D. A., **Maity, A.**, Staicu, A-M., Joubert, B. R., London, S. J. and Wu, M. C. (2015). Global Analysis of Methylation Profiles from High Resolution CpG Data, *Genetic Epidemiology*, 39, 53 - 64.
-
- 30 Wang, Z., **Maity, A.**, Hsiao, C. K., Voora, D., Kaddurah-Daouk, R., Tzeng, J.-Y. (2015). Module-based association analysis for omics data with network structure, *PLOS ONE*, 10(3): e0122309.
-
- 31 Davenport, C., **Maity, A.** and Wu, Y. (2015). Parametrically Guided Estimation in Non-parametric Varying Coefficient Models with Quasi-likelihood, *Journal of Nonparametric Statistics*, 27, 195 - 213.
-
- 32 Urrutia, E., Lee, S., **Maity, A.**, Zhao, N., Shen, J., Li, Y. and Wu, M.C. (2015) Rare variant testing across methods and thresholds using the multi-kernel sequence kernel association test (MK-SKAT), *Statistics and Its Interfaces*, 8, 495 - 505.
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2014

- 33 **Maity, A.**, Williams, P., Ryan, L., Missmer, S., Coull, B. and Hauser, R. (2014). Analysis of In-vitro Fertilization Data with Multiple Outcomes Using Discrete Time to Event Analysis, *Statistics in Medicine*, 33, 1738 - 1749.
-
- 34 Carmona, J. J., Sofer, T., Hutchinson, J., Cantone, L., Coull, B., **Maity, A.**, Vokonas, P., Lin, X., Schwartz, J. and Baccarelli, A. A. (2014). Short-term airborne particulate matter exposure alters the epigenetic landscape of human genes associated with the mitogen-activated protein kinase network: a cross-sectional study, *Environmental Health*, 13:94.
-

2013

- 35 Sofer, T., Baccarelli, A., Cantone, L., Coull, B., **Maity, A.**, Lin, X. and Schwartz, J. (2013). Exposure to airborne particulate matter is associated with methylation pattern in the asthma pathway, *Epigenomics*, 5, 147 - 154.
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- 36 Wu, M. C., **Maity, A.**, Lee, S., Simmons, E. M., Harmon, Q. E., Lin, X., Engle, S. M., Mollndrem, J. J. and Armistead, P. M. (2013). Kernel Machine SNP-set Testing under Multiple Candidate Kernels, *Genetic Epidemiology*, 37, 267 - 275.
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- 37 Xun, X., Cao, J., Mallick, B., Carroll, R. J. and **Maity, A.** (2013). Parameter Estimation of Partial Differential Equation Models, *Journal of the American Statistical Association*, 108, 1009 - 1020.
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- 38 Fan, J., **Maity, A.**, Wang, Y. and Wu, Y. (2013). Parametrically guided generalised additive models with application to mergers and acquisitions data, *Journal of Nonparametric Statistics*, 25, 109 - 128.
-
- 39 Gertheiss, J., **Maity, A.** and Staicu, A-M. (2013). Variable Selection in Generalized Functional Linear Models, *Stat*, 2, 86 - 101.
-
- 40 Liu, C-Y., **Maity, A.**, Lin, X., Wright, R. and Christiani, D. C. (2013). Issues in Understanding Epigenetics and Disease, in *Epigenetics and Pathology: Exploring Connections Between Genetic Mechanisms and Disease Expression*, Edited by Kasirajan Ayyanathan, Apple Academic Press.
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2012

- 41 **Maity, A.** (2012). A Powerful Test for Comparing Multiple Regression Functions, *Journal of Nonparametric Statistics*, 24, 563 - 576.
-
- 42 Mahalingaiah, S., Missmer, S. A., **Maity, A.**, Williams, P. L., Meeker, J. D., Berry, K. Ehrlich, S., Perry, M. J., Cramer, D. W. and Hauser, R. (2012). Association of Hexachlorobenzene (HCB), Dichlorodiphenyltrichloroethane (DDT), and Dichlorodiphenyl - dichloroethane (DDE) with In Vitro Fertilization (IVF) Outcomes, *Environmental Health Perspectives*, 120, 316 - 320.
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- 43 Liu, C-Y., **Maity, A.**, Lin, X., Wright, R. and Christiani, D. C. (2012). Design and Analysis Issues in Gene and Environment Studies, *Environmental Health*, 11:93. **Highly Accessed.**
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- 44 Sofer, T., **Maity, A.**, Coull, B., Baccarelli, A., Schwartz, J. and Lin, X. (2012). Multivariate Gene Selection and Testing in Studying the Exposure Effects on a Gene Set, *Statistics in Biosciences*, 4, 319 - 338.
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- 45 **Maity, A.**, Sullivan, P. and Tzeng, J-Y. (2012). Multivariate Phenotype Association Analysis by Marker-Set Kernel Machine Regressions, *Genetic Epidemiology*, 36, 686 - 695.
-
- 46 **Maity, A.** and Huang, J. (2012). Partially Linear Varying Coefficient Models Stratified by a Functional Covariate, *Statistics and Probability Letters*, 82, 1807 - 1814.
-
- 47 He, H., Zhang, H., **Maity, A.**, Zou, Y., Hussey, J. and Karmaus, W. (2012). Power of a reproducing kernel-based method for testing the joint effect of a set of single-nucleotide polymorphisms, *Genetica*, 140, 421 - 427.
-
- 48 **Maity, A.** and Sherman, M. (2012). Testing for Spatial Isotropy Under General Designs, *Journal of Statistical Planning and Inference*, 142, 1081-1091.
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2011

- 49 Bandyopadhyay, S. and **Maity, A.** (2011). Analysis of Sabine river flow data using semi-parametric spline modeling, *Journal of Hydrology*, 399, 274-280.
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- 50 **Maity, A.** and Apanasovich, T. V. (2011). Estimation via Corrected Scores in General Semiparametric Regression Models with Error-Prone Covariates, *Electronic Journal of Statistics*, 5, 1424 - 1449.
-
- 51 Sherman, M., **Maity, A.** and Wang, S. (2011). Inferences for the Ratio: Fieller's Interval, Log Ratio, and Large Sample Based Confidence Intervals, *Advances in Statistical Analysis*, 95, 313-323.
-
- 52 **Maity, A.** and Lin, X. (2011). Powerful tests for detecting a gene effect in the presence of possible gene-gene interactions using garrote kernel machines, *Biometrics*, 67, 1271 - 1284.
-
- 53 Perry, M. J., Chen, X., McAuliffe, M., **Maity, A.** and Deloid, G. (2011). Semi-automated Scoring of Triple-probe FISH in Human Sperm: Methods and Further Validation, *Cytometry A*, 79A: 661 - 666.
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- 54 Meeker, J. D., **Maity, A.**, Missmer, S. A., Williams, P. L., Mahalingaiah, S., Ehrlich, S., Perry, M. J., Cramer, D. W. and Hauser, R. (2011). Serum Concentrations of Polychlorinated Biphenyls (PCBs) in Relation to in Vitro Fertilization (IVF) Outcomes, *Environmental Health Perspectives*, 119, 1010 - 1016.
-
- 55 Wei, J., Carroll, R. J. and **Maity, A.** (2011). Testing for Constant Nonparametric Effects in General Semiparametric Regression Models with Interactions, *Statistics and Probability Letters*, 81, 717-723.
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2009 – 2010

- 56 Zhou, L., Huang, J., Martinez, J. G., **Maity, A.**, Baladandayuthapani, V. and Carroll, R. J. (2010). Reduced Rank Mixed Effects Models for Spatially Correlated Hierarchical Functional Data, *Journal of the American Statistical Association*, 105, 390-400.
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- 57 **Maity, A.** and Mallick, B. (2010). Proportional Hazards Regression Using Bayesian Kernel Machines, in *Bayesian Modeling in Bioinformatics*, Chapman & Hall/CRC.
-
- 58 Carroll, R. J., **Maity, A.**, Mammen, E. and Yu, K. (2009). Efficient Semiparametric Marginal Estimation for the Partially Linear Additive Model for Longitudinal/Clustered Data, *Statistics in Biosciences*, 1, 10-31.
-
- 59 Carroll, R. J., **Maity, A.**, Mammen, E. and Yu, K. (2009). Nonparametric Additive Regression for Repeatedly Measured Data, *Biometrika*, 96, 383-398.
-
- 60 Apanasovich, T. V., Carroll, R. J. and **Maity, A.** (2009). SIMEX and Standard Error Estimation in Semiparametric Measurement Error Models, *Electronic Journal of Statistics*, 3, 318-348.
-
- 61 **Maity, A.**, Carroll, R. J., Mammen, E. and Chatterjee, N. (2009). Testing in Semiparametric Models with Interaction, with Applications to Gene-Environment Interactions, *Journal of the Royal Statistical Society, Series B*, 71, 75-96.
-

2005 – 2008

- 62 **Maity, A.** (2008). Efficient Estimation of Population Quantile in General Semiparametric Regression Models, *Statistics and Probability Letters*, 78, 2744-2750.
-

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- 63 **Maity, A.** and Sherman, M. (2008). On Adaptive Linear Regression, *Journal of Applied Statistics*, 35, 1409-1422.
-
- 64 **Maity, A.**, Apanasovich, T. V. and Carroll, R. J. (2008). Estimation of Population-Level Summaries in General Semiparametric Repeated Measures Regression Models, in *Beyond Parametrics in Interdisciplinary Research: Festschrift in Honor of Professor Pranab K. Sen*, editors N. Balakrishnan, E. Pena and M. J. Silvapulle. IMS Collections, 1, 123-137.
-
- 65 Carroll, R. J. and **Maity, A.** (2007). Comments on: Nonparametric Inference with Generalized Likelihood Ratio Tests, *TEST*, 16, 456-458.
-
- 66 **Maity, A.**, Ma, Y. and Carroll, R. J. (2007). Efficient Estimation of Population-Level Summaries in General Semiparametric Regression Models, *Journal of the American Statistical Association*, 102, 123-139.
-
- 67 **Maity, A.** and Sherman, M. (2006). The Two Sample T-test with One Variance Unknown, *The American Statistician*, 60, 163-166.
-
- 68 **Maity, A.** and Sengupta, D. (2005). A Perturbation Technique for Sample Moment Matching in Kernel Density Estimation, *Calcutta Statistical Association Bulletin (special Fifth Triennial Proceedings volume)*, 56, 161-188.
-

Dissertation

- 69 **Maity, A.** (2008). Efficient Inference in General Semiparametric Regression Models, Doctoral Dissertation, Texas A&M University.
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Invited Presentations

1. Department of Biostatistics, Harvard School of Public Health, 2008.
2. Department of Mathematical Sciences, Indiana University-Purdue University at Indianapolis, 2010.
3. Department of Biostatistics, School of Public Health at Johns Hopkins, 2010.
4. Department of Statistics, North Carolina State University, 2010.
5. Department of Biostatistics, University of Minnesota, 2010.
6. Department of Biostatistics, University of Michigan, 2010.
7. Department of Biostatistics, Harvard School of Public Health, 2010.
8. Department of Statistics, Columbia University, 2010.
9. Conference on Resampling Methods and High Dimensional Data, Texas A&M University, 2010.
10. Bioinformatics research center, North Carolina State University, 2010.
11. Department of Statistics, University of South Carolina, 2011.
12. SRCOS Summer Research Conference, McCormick, South Carolina, 2011.
13. Joint Statistical Meetings, Miami, 2011.
14. Biostatistics seminar, Department of Statistics, North Carolina State University, 2011.
15. Environmental statistics seminar, Department of Statistics, North Carolina State University, 2011.
16. Research triangle statistical genetics conference, North Carolina, 2011.
17. Eastern North American Region (ENAR) Spring Meeting, Washington, DC, 2012.
18. Joint Statistical Meetings, San Diego, 2012.
19. Department of Biostatistics, MD Anderson Cancer Center, Houston, TX, 2012

20. International Conference on Advances in Interdisciplinary Statistics and Combinatorics at UNC Greensboro, 2012
21. Bioinformatics seminar, Department of Statistics, Purdue University, 2013.
22. Department of Mathematics, Lehigh University, Bethlehem, PA, 2014
23. Department of Statistics, Texas A&M University, College Station, TX, 2014
24. Noether Award Lecture (Young Researcher), Joint Statistical Meetings, Seattle, Washington, 2015.
25. Department of Epidemiology and Biostatistics, University of South Carolina, Columbia, SC, 2015.
26. International Indian Statistical Association Conference, Pune, Maharashtra, India, 2015.
27. International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, North Carolina, (September 30 - October 2), 2016.
28. Latent Variables Conference, University of South Carolina (Department of Statistics), Columbia, South Carolina, (October 14-16), 2016.

Other Conferences/Presentations

1. Eastern North American Region (ENAR) Spring Meeting, Tampa, Florida, 2006. (Presentation)
 2. Eastern North American Region (ENAR) Spring Meeting, Atlanta, Georgia, 2007. (Presentation)
 3. Joint Statistical Meetings, Salt Lake City, Utah, 2007. (Presentation)
 4. Nonparametric Conference, South Carolina, 2007. (Poster)
 5. Eastern North American Region (ENAR) Spring Meeting, Arlington, Virginia, 2008. (Presentation)
 6. Joint Statistical Meeting, Denver, Colorado, 2008. (Presentation)
 7. SRCOS SRC Conference, Charleston, SC, 2008. (Poster)
 8. International Indian Statistical Association Conference, Connecticut, 2008. (Presentation)
 9. Department of Statistics, Texas A&M University University, 2008. (Presentation)
 10. Annual Conference in Quantitative Genomics, Harvard School of Public Health, 2008. (Poster)
 11. Department of Biostatistics, Harvard School of Public Health, 2009. (Presentation)
 12. Eastern North American Region (ENAR) Spring Meeting, San Antonio, Texas, 2009. (Presentation)
 13. Joint Statistical Meetings, Washington, DC, 2009. (Presentation)
 14. Annual Conference in Quantitative Genomics, Harvard School of Public Health, 2009. (Attendance)
 15. Eastern North American Region (ENAR) Spring Meeting, New Orleans, LA, 2010. (Presentation)
 16. Annual Conference in Quantitative Genomics, Harvard School of Public Health, 2010. (Attendance)
 17. International Indian Statistical Association Conference, Raleigh, North Carolina, 2011. (Organizer)
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Academic Visits

1. Department of Statistics, Texas A&M University University, November, 2011.
 2. Department of Biostatistics, MD Anderson Cancer Center, September, 2012
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Teaching

ST 372: Introduction to Statistical Inference and Regression (F2015, S2016, F2016, F2017, S2018)
ST 495/590: Applied Multivariate and Longitudinal Data Analysis (S2017)
ST 501: Fundamentals of Inference I (F2018)

ST 552/705: Linear Models and Variance Components (S2016, S2017, S2018)

ST 731: Applied Multivariate Analysis (S2012, S2014, S2015)

ST 810: Functional Data Analysis (F2012)

Services

Current PhD Students

Kara Martinez (Statistics, Sole advisor)
Merve Tekbudak (Statistics, Co-advisor)
Matthew Austin (Statistics, Sole advisor)
Haoyu Wang (Statistics, Co-advisor)
Mityl Biswas (Statistics, Sole Advisor)
Rahul Ghosh (Statistics, Sole Advisor)
Joonho Gong (Statistics, Sole Advisor)
Suchit Mehrotra (Statistics, Sole Advisor)
Salil Koner (Statistics, Sole Advisor)

Former Students

Colleen McKendry (PhD, Statistics, 2018, Co-advisor)
Yiwen Luo (PhD, Bioinformatics with co-major in Statistics, 2017, Co-advisor)
Sarah Hale (PhD, Statistics, 2016, Sole advisor)
Joseph Usset (PhD, Statistics, 2014, Co-advisor)
Jing Zhao (PhD, Bioinformatics, 2014, Co-advisor)
Adrian Coles (PhD, Statistics, 2014, Sole advisor)
Clemontina Alexander Davenport (PhD, Statistics, 2013, Sole advisor)

Served/member in PhD committees

Suman Majumder (Statistics), Jonathan Leirer (Statistics), Wanying Ma (Statistics), Siddharth Roy (Statistics), Xiuqi Li (Statistics, 2018), Jeremy Thomas Howard (Animal Science and Poultry Science, 2017), Rachel Elizabeth Marceau West (Bioinformatics, 2017), Zhou Li (Statistics, 2016), Samuel Morris (Statistics, 2016), Janet Kim (Statistics, 2016), Han Na Lee (Statistics, 2016), Katherine Varga (Mathematics, Graduate School Representative, 2015), Yuelong Guo (Bioinformatics, 2015), Cheng Wang (Civil Engineering, 2014, Graduate School Representative), William Weimin Yoo (Statistics, 2014), Xiaoshan Li (Statistics, 2014), Wei Xiao (Statistics, 2014), Beth Ann Tidemann-Miller (Statistics, 2013), Liwei Wang (Statistics, 2012), Dehan Kong (Statistics, 2013), Zhi Wang (Bioinformatics, 2013), Chad Brown (Statistics, 2012), Bo Liu (Statistics, 2012)

Served in MS committees

Huimin Peng (Statistics, 2014), Jing Zhao (Statistics, 2013), Ziran Gu (Statistics, 2013), Wei Xiao (Statistics, 2013), Xiang Zhang (Statistics, 2013), Chunxiao Ma (Bioinformatics, 2012), Kenda Honeycutt (Anthropology, 2012), Amanda Hale (Sociology and Anthropology, 2012), Tian Chen (Statistics, 2012), Frances Tirado (Statistics, 2012), Matthew Austin (Statistics, 2012), Bo Zhang (Statistics, 2011)

Other services

Chair of PhD Qualifier Examination Committee (2019, January), Department of Statistics, North Carolina State University.

Member of Lecturer Search Committee (2018, Summer), Department of Statistics, North Carolina State University.

Chair of PhD Qualifier Examination Committee (2017, January), Department of Statistics, North Carolina State University.

Member of PhD Qualifier Examination Committee (2016, August), Department of Statistics, North Carolina State University.

Member of Statistics Department Search Committee (2015 – 2016), Department of Statistics, North Carolina State University.

Chair of the session on Modern Advancements in Modeling and Inference of Correlated Functional Data (2015 JSM Session # 20)

Member of Statistics Department Search Committee (2014 – 2015), Department of Statistics, North Carolina State University.

Member of Statistics Department Seminar Committee (2014 – 2015), Department of Statistics, North Carolina State University.

Chair, Statistics Department Seminar Committee (2013 – 2014), Department of Statistics, North Carolina State University.

Member of the organizing committee of NC-ASA symposium, Raleigh, NC (2013).

Co-organizer of Functional Data Analysis working group and seminar series (2013 - current), Statistics, NCSU.

Organizer and Chair of the session on “Statistical Methods for Analyzing Complex Biomedical Data” in the International Conference on Advances in Interdisciplinary Statistics and Combinatorics at UNC Greensboro (2012).

Chair, Statistics Department Library Committee (2012 - current), Department of Statistics, North Carolina State University.

Member of Basic Examination Committee (2012, August), Department of Statistics, North Carolina State University.

Member of Basic Examination Committee (2011, August), Department of Statistics, North Carolina State University.

Member of the Local and International Organizing Committees, 2011 International Indian Statistical Association Conference on Probability, Statistics, and Data Analysis (April 21-24, 2011), North Carolina State University.

Coordinator of the Environmental Statistics Seminar series (2009 - 2010), Department of Biostatistics, Harvard School of Public Health.

Memberships

American Statistical Association (ASA), International Biometric Society Eastern North American Region (IBS-ENAR), Institute of Mathematical Statistics (IMS).

