

Tanya P. Garcia

UNC Chapel Hill

Department of Biostatistics

Gillings School of Global Public Health

Chapel Hill, NC 27516

Email: tpgarcia@email.unc.edu

Web: <https://tpgarcia.github.io/>

Education

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| Ph.D., Statistics , Texas A&M University, College Station, TX | 08/2011 |
| Dissertation: Efficient semiparametric estimators for biological, genetic, and measurement error applications. | |
| M.Sc., Statistics , University of Western Ontario, London, ON, Canada | 08/2006 |
| Thesis: Improving the PROMETHEUS model through parameter smoothing. | |
| M.S., Industrial Engineering and Operations Research , University of California, Berkeley, Berkeley, CA | 05/2005 |
| B.S., Mathematics , University of California, Irvine, Irvine, CA | 06/2003 |

Professional Experience

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| Associate Professor of Biostatistics (Tenured) , Gillings School of Global Public Health, The University of North Carolina at Chapel Hill | 07/2020-Present |
| Associate Professor of Statistics (Tenured) , Texas A&M University | 09/2018-07/2020 |
| Assistant Professor of Biostatistics , Texas A&M School of Public Health | 01/2013- 08/2018 |
| Research Assistant Professor of Statistics , Texas A&M University | 07/2011-12/2012 |
| Visiting Scholar , The University of Sydney, Australia | 11/2012 |
| <i>Fully funded (\$7,200 AUS) four-week invitation by Prof. Samuel Müller and Prof. Alan Welsh.</i> | |
| Research Assistant , Oak Ridge National Lab, Oak Ridge, TN | 06/2010-08/2010 |
| Research Assistant , MD Anderson Cancer Center, Houston, TX | 07/2008-08/2008 |
| Teaching Assistant , University of Neuchâtel, Neuchâtel, Switzerland | 09/2006-06/2008 |
| Teaching Assistant , University of Western Ontario, London, ON, Canada | 09/2005-06/2006 |
| Research Assistant , RWTH Institute of Operations Research and Logistics, Aachen, Germany | 06/2004-08/2004 |
| Research Assistant , University of California, Irvine, Irvine, CA | 09/2002-06/2003 |
| Teaching Assistant , University of California, Irvine, Irvine, CA | 09/2001-06/2003 |

Honors and Awards

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| 25. Featured in AMSTAT News Hispanic Heritage Month | 2020 |
| 24. Sigma Xi Member , Texas A&M Chapter | 2020 |
| 23. Plenary Speaker at the 39th International Symposium on Forecasting , Thessaloniki, Greece | 2019 |

22. **Mentoring Institute for Neuroscience Diversity Scholars (MINDS) Fellow** 2017-2018
 NIH NINDS funded program that promotes the advancement of underrepresented independent researchers in neuroscience.
21. **Southeastern Conference (SEC) Travel Grant Program Award, Texas A&M University*** 2016-2017
**Awarded but then unable to be used due to collaborator moving to non-SEC university.*
20. **14th Meeting of New Researchers in Statistics and Probability Travel Award**, University of California, San Diego 2012
 Travel award to attend workshop which promotes interaction and networking among new researchers in statistics and probability.
19. **SACNAS National Conference Travel Award**, Seattle, WA 2012
18. **Roadmap for a Successful Academic Career Workshop Travel Award**, Texas A&M University 2012
 Designed for internal and external women postdoctoral researchers and assistant professors (2 years or less) in STEM fields.
17. **American Statistical Association Gertrude M. Cox Award (\$2,000)** 2011
 Awarded to 2 out of 1200 female applicants from throughout the US and Canada.
16. **Phi Kappa Phi Member**, Texas A&M Chapter 2011
 Awarded to top 10% of seniors and graduate students at Texas A&M University.
15. **Emerging Researchers National Conference in Science, Technology, Engineering and Mathematics Travel Award** 2011
 Awarded to 100 applicants.
14. **William S. Connor Award**, Texas A&M University 2010
 Awarded to the student whom the faculty deems the most outstanding among those students passing the preliminary examinations during the 2008-2009 academic year.
13. **Building Future Faculty Travel Award**, North Carolina State University 2010
 Awarded to 12 out of 100 applicants from graduate programs throughout the US.
12. **Negotiating the Ideal Faculty Position Travel Award**, Rice University 2010
 Awarded to 65 out of 1100 applicants from graduate programs throughout the US.
11. **Ford Foundation Predoctoral Fellowship Honorable Mention** 2010
10. **Teaching Assistant of the Year in the Sciences**, University of Western Ontario 2006
9. **Summa Cum Laude**, School of Physical Sciences, University of California, Irvine 2003

8. **Mathematics Departmental Service/Undergraduate Service Award**, University of California, Irvine 2003
7. **Outstanding Senior in Mathematics**, University of California, Irvine 2003
6. **Phi Beta Kappa Member**, University of California, Irvine 2003
Awarded to top 5% of graduating seniors at University of California, Irvine.
5. **Ronald E. McNair Scholar**, University of California, Irvine 2002-2003
4. **Leadership Scholarship**, University of California, Irvine 2000-2002
3. **The National Dean's List**, University of California, Irvine 2000-2003
2. **National Society of Collegiate Scholars**, University of California, Irvine 2001
1. **National Hispanic Scholar Finalist**, University of California, Irvine 2000

Professional Memberships

American Statistical Association
ENAR
Huntington Study Group
Institute of Mathematical Statistics
National Society of Collegiate Scholars
Phi Beta Kappa
Phi Kappa Phi
Society for Neuroscience

Research Interests

High-Dimensional Variable Selection, Longitudinal Data Analysis, Neurodegenerative Diseases, Nonparametric Models, Prediction Models, Semiparametric Models, Survival Analysis

Books and Chapters

27. Dutra, J.R.*, **Garcia, T.P.*** (*shared first authorship), Marder, K. (2019). Huntington's Disease. In Oxford Textbook of Neurological and Neuropsychiatric Epidemiology, editors Carol Brayne, Valery Feigin, Lenore Launer, and Giancarlo Logroscino. pp. 1-15.
26. **Garcia, T.P.**, Marder, K. and Wang, Y. (2017). Statistical modeling of Huntington disease onset. In Handbook of Clinical Neurology, vol 144: 47-61, 3rd Series, editors Andrew Feigin and Karen E. Anderson. doi: 10.1016/b978-0-12-801893-4.00004-3.

Peer-Reviewed Publications

Underline denotes co-author is a student or postdoctoral researcher.

Under Review

25. Parast, L., **Garcia, T.P.**, Carroll, R.J., and Ross, R.L. Robust methods to correct for measurement error when evaluating a surrogate marker. pp. 1-25.
24. Kim, R., Müller, S., and **Garcia, T.P.** C2pLasso: the categorical-continuous pliable lasso to identify brain regions affecting motor impairment in Huntington disease. pp. 1-25.

Published/In Press

23. Lee, U., Carroll, R.J., Marder, K., Wang, Y., and **Garcia, T.P.** (2020). Estimating disease onset from change points of markers measured with error. *Biostatistics*, in press. pp. 1-25.
22. **Garcia, T.P.** and Parast, L. (2020). Dynamic landmark prediction for mixture models. *Biostatistics*, in press. pp. 1-25.
21. Lee, U., **Garcia, T.P.**, Carroll, R.J., Gilbreath, K. and Wu, G. (2019). Analysis of repeated measures data in nutrition research. *Frontiers in Bioscience, Landmark*, **24**, 1378-1390.
20. Shipp, E., Vasudeo, S., Trueblood, A. and **Garcia, T.P.** (2019). Single Logging Vehicle Crashes and Variables Associated with Injury in Louisiana. *Journal of Agromedicine*, **24**, 177-185. doi: 10.1080/1059924X.2019.1567422.
19. **Garcia, T.P.**, Marder, K. and Wang, Y. (2019). Time-varying Proportional Odds Model for Mega-analysis of Clustered Event Times, *Biostatistics*, **20**, 129-146. doi: 10.1093/biostatistics/kxx065.
18. Wei, Y., Ma, Y., **Garcia, T.P.** and Sinha, S. (2019). Consistent estimator for logistic mixed effect models. *The Canadian Journal of Statistics*, **47**, 140-156. doi:10.1002/cjs.11482.
17. **Garcia, T.P.**, Wang, Y., Shoulson, I., Paulsen, J.S., and Marder, K. (2018). Disease progression in Huntington Disease: an analysis of multiple longitudinal outcomes. *Journal of Huntington Disease*, **7**, 337-344. doi: 10.3233/JHD-180297.
16. **Garcia, T.P.** and Ma, Y. (2017). Simultaneous treatment of unspecified heteroskedastic model error distribution and mismeasured covariates for restricted moment models. *The Journal of Econometrics*, **200**, 194-206.
15. **Garcia, T.P.**, Ma, Y., Marder, K. and Wang, Y. (2017). Robust mixed-effects model for clustered failure time data: application to Huntington's disease event measures. *Annals of Applied Statistics*, **11**, 1085-1116.
14. **Garcia, T.P.** and Marder, K. (2017). Statistical Approaches to longitudinal data analysis in neurodegenerative diseases: Huntington's Disease as a model. *Current Neurology and Neuroscience Reports*, **17**:14, doi:10.1007/s11910-017-0723-4.
13. **Garcia, T.P.** and Müller, S. (2016). Cox regression with exclusion frequency-based weights to identify neuroimaging markers relevant to Huntington's disease onset. *Annals of Applied Statistics*, **10**, 2130-2156.
12. Kohli, P., **Garcia, T.P.** and Pourahmadi, M. (2016). Linear models for cholesky factors of covariance matrices of multivariate longitudinal data. *Journal of Multivariate Analysis*, **145**, 87-100.
11. **Garcia, T.P.** and Ma, Y. (2015). Optimal estimator for logistic model with distribution-free random intercept. *Scandinavian Journal of Statistics*, **43**, 156-171.
10. Qin, J.*, **Garcia, T.P.*** (*shared first authorship), Ma, Y., Tang, M.X., Marder, K. and Wang, Y. (2014). Combining isotonic regression and EM algorithm to predict genetic risk under monotonicity constraint and unknown genotypes. *Annals of Applied Statistics*, **8**, 1182-1208.

9. **Garcia, T.P.** and Müller, S. (2014). Influence of measures of significance-based weights in the weighted Lasso. *Journal of the Indian Society of Agricultural Statistics* (Invited paper), **68**, 131-144.
8. **Garcia, T.P.**, Müller, S., Carroll, R.J., and Walzem, R.L. (2014). Identification of important regressor groups, subgroups, and individuals via regularization methods: application to gut microbiome data. *Bioinformatics*, doi: 10.1093/bioinformatics/btt608.
7. **Garcia, T.P.**, Müller, S., Carroll, R.J., Dunn, T.N., Thomas, A.P., Adams, S.H., Pillai, S.D., and Walzem, R.L. (2013). Structured variable selection with q -values. *Biostatistics*, DOI: 10.1093/biostatistics/kxt012.
6. Wang, Y., **Garcia, T.P.**, and Ma, Y. (2012). Nonparametric estimation for censored mixture data with application to the Cooperative Huntington's Observational Research Trial. *Journal of the American Statistical Association*, **107**, 1324-1338.
5. **Garcia, T.P.**, Kohli, P., Pourahmadi, M. (2012). Regressograms and mean-covariance models for incomplete longitudinal data. *The American Statistician*, **66**, 85-91.
4. Ye, F., **Garcia, T.P.**, Pourahmadi, M., and Lord, D. (2012). Extension of a negative binomial GARCH model: analyzing the effects of gasoline price and VMT on DUI fatal crashes in Texas. *Transportation Research Record: Journal of the Transportation Research Board*, **2279**, 31-39.
3. **Garcia, T.P.**, Ma, Y., and Yin, G. (2011). Efficiency improvement in a class of survival models through model-free covariate incorporation. *Lifetime Data Analysis*, **17**, 552-565.
2. Barber, J., Bose, C., Bourlioux, A., Braun, J., Brunelle, E., **Garcia, T.**, Hillenk, T., and Ong, B. (2010). Burning issues with PROMETHEUS, the Canada's wildfire growth simulator. *Canadian Applied Mathematics Quarterly*, **16**, 337-378.
1. **Garcia, T.**, Braun, J., Bryce, R., and Tymstra C. (2008). Smoothing and bootstrapping the PROMETHEUS fire growth model. *Environmetrics*, **19**, 1-13.

Courses Taught

Texas A&M University, College Station, TX

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| Instructor, Statistical Methods (Spring Semester, 91-100 students) | 2020 |
| Instructor, Statistical Methods (Spring Semester, 91-100 students) | 2019 |

Texas A&M Health Science Center, College Station, TX

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| Instructor, Biostatistics II Online (Spring Semester, 9-32 students) | 2014-2018 |
| Instructor, Biostatistics II In-Person (Spring Semester, 45-52 students) | 2013-2015 |
| Instructor, Statistics II, College of Medicine (one day course, \approx 50 students) | 01/2013 |

University of Neuchâtel, Neuchâtel, Switzerland

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|---|-------------------|
| Teaching Assistant, Calculus and Linear Models (taught in French, (\approx 60 students)) | Spring 2007, 2008 |
| Teaching Assistant, Linear Models (Graduate Level, \approx 15 students) | Fall 2007 |
| Teaching Assistant, Econometrics (\approx 50 students) | Fall 2006 |

University of Western Ontario, London, ON, Canada

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| Teaching Assistant, Operations Research (\approx 30 students) | Spring 2006 |
| Teaching Assistant*, Applied Probability (\approx 50 students) | Fall 2005 |

*Awarded Teaching Assistant of the Year in the Sciences

University of California, Irvine, Irvine, CA

Tanya P. Garcia

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| Teaching Assistant, Statistics, Summer Bridge (≈ 20 students) | Summer 2002 |
| Tutor, Mathematics, Learning and Academic Resource Center (≈ 8 students) | 09/2001-06/2003 |

Advising and Formal Mentoring

Postdoctoral Fellows Supervised

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| Unkyung Lee , Postdoctoral Trainee of DHHS-NIH National Cancer Institute T32, Texas A&M University, Department of Statistics | 06/2017- |
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Doctoral Students Supervised

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| Marissa Ashner , UNC Chapel Hill, Department of Biotatistics | 08/2020- |
| Kyle Grosser , UNC Chapel Hill, Department of Biotatistics | 08/2020- |
| Rakheon Kim , Texas A&M University, Department of Statistics | 05/2018- |
| Satwik Acharyya , Texas A&M University, Department of Statistics | Fall 2015 |

Master of Science Supervised

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| Weixi Zhu , MS, Texas A&M University, Department of Statistics | 2018-2019 |
| Timothy Gibson , Honours (equivalent of Undergraduate Senior Diploma), The University of Sydney, Department of Statistics | 2016-2017 |
| Sage Lane , MPH, Texas A&M Health Science Center, Department of Epidemiology and Biostatistics | Summer 2014 |

Undergraduate Students Supervised

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| Chen Lin , BS, Visiting Undergraduate Scholar from Fudan University | 07/2019- |
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Service on Doctoral and Master of Science Committees

Doctoral Student Committees

Texas A&M University

Department of Statistics

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|---|------|
| Eli Kravitz (Chair: Raymond J. Carroll) | 2019 |
| Shuai Chen (Chair: Hongwei Zhao and Lan Zhou) | 2015 |

Department of Mathematics

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| Lauren Snider | 2019- |
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Department of Epidemiology and Biostatistics

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| Xiaohuan Zhu (Chair: Hongwei Zhao) | 2019- |
| Shubhangi Vasudeo (Chair: Eva Shipp) | 2017- |

Grants and Fellowships (Total: \$938,406)

Active

9. **Principal Investigator**, NIH NINDS, K01NS099343, \$557,406 total 12/2016-11/2019
“Innovative statistical models for development of first Huntington’s disease progression risk assessment tool.”
8. **Statistics Mentor**, T32 DHHS-NIH-National Cancer Institute, 0% effort 08/2017-08/2021
“Nutrition, Biostatistics and Bioinformatics,” PI: Raymond J. Carroll.
7. **Co-Investigator**, U54 OH007541-16, Centers for Agricultural Safety and Health, 0% effort 12/2016-11/2019
“Leveraging motor vehicle crash data for injury surveillance and research in AFF,” PI: Eva Shipp.

Completed

6. **Principal Investigator**, Texas A&M School of Public Health Research Enhancement and Development Initiative (REDI) Grant, \$25,000 total 06/2015-08/2016
“Identifying high-dimensional neuroimaging biomarkers associated with Huntington’s disease motor onset.”
5. **Principal Investigator**, Huntington’s Disease Society of America (HDSA) Research Fellowship, \$150,000 total 11/2013-11/2015
“Improved definition and prediction of Huntington’s disease motor-onset using advanced statistical models.”
4. **Principal Investigator**, National Consortium for Graduate Degrees for Minorities in Engineering and Science (GEM) PhD Fellowship, \$30,000 total 2010-2011
3. **Principal Investigator**, Philanthropic Educational Organization (P.E.O.) Scholar Award, \$15,000 total 2010-2011
2. **Principal Investigator**, National Science Foundation’s Texas A&M University System Louis Stokes Alliance for Minority Participation Bridge to the Doctorate Fellowship, \$94,000 total 2008-2010
1. **Principal Investigator**, Chancellor’s Opportunity Predoctoral Fellowship, University of California, Berkeley, \$67,000 total 2003-2005

Conferences and Symposia

Invited Presentations

58. Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers, Oaxaca, Mexico (cancelled due to COVID-19) 08/2020
57. 5th International Society for Non-Parametric Statistics (ISNPS) Meeting, Paphos, Cyprus (cancelled due to COVID-19) 06/2020
56. International Chinese Statistics Association (ICSA) 2020 Applied Statistics Symposium, Houston, TX (cancelled due to COVID-19) 05/2020
55. Rice University, Department of Statistics, Houston, TX (cancelled due to COVID-19) 03/2020

54. Texas A&M University, Louis Stokes Alliance for Minority Participation Seminar Speaker, College Station, TX 03/2020
53. University of Pennsylvania, Department of Biostatistics, Philadelphia, PA 02/2020
52. **Inaugural Speaker** at the Bioinformatics: Research & Application Symposium, Texas A&M University, College Station, TX 10/2019
51. University of North Carolina at Chapel Hill, Department of Biostatistics, Chapel Hill, NC 09/2019
50. 3rd International Conference on Econometrics and Statistics, Taichung, Taiwan 06/2019
49. **Plenary Speaker** at the 39th International Symposium on Forecasting, Thessaloniki, Greece 06/2019
48. 2019 Eastern North American Region (ENAR) Annual Meeting, Philadelphia, PA 03/2019
47. Department of Statistical Science, Southern Methodist University, Dallas, TX 10/2018
46. 2018 Joint Statistical Meeting, Vancouver, Canada 08/2018
45. International Society for Non-Parametric Statistics (ISNPS) Meeting, Salerno, Italy 06/2018
44. Institute for Mathematics and its Applications “Frontiers in Forecasting”, Minneapolis, MN 02/2018
43. 10th International Conference of the ERCIM WG on Computational and Methodological Statistics, University of London, UK 12/2017
42. Texas A&M University, Department of Statistics, College Station, TX 12/2017
41. 2017 Joint Statistical Meeting, Baltimore, MD 08/2017
40. 32nd Annual Huntington’s Disease Society of America Annual Convention, Schaumburg, IL 06/2017
39. International Conference on Econometrics and Statistics, Hong Kong University of Science and Technology, Hong Kong 06/2017
38. 2017 Conference on Lifetime Data Science, Storrs, CT 05/2017
37. Baylor University, Department of Statistical Science, Waco, TX 02/2017
36. Huntington Study Group, 10th Annual HD Clinical Research Symposium, Nashville, TN 11/2016
35. Newest Developments and Urgent Issues in Measurement Error and Latent Variable Problems, Banff, Canada 08/2016
34. 2016 International Biometrics Conference, Victoria, Canada 07/2016
33. 2016 Eastern North American Region (ENAR) Annual Meeting, Austin, TX 03/2016
32. 2015 Joint Statistical Meeting, Seattle, WA 08/2015
31. International Society for Non-Parametric Statistics (ISNPS) Meeting, Biosciences, Medicine, and Novel Non-Parametric Methods, Graz, Austria 07/2015
30. International Chinese Statistical Association Applied Symposium, Fort Collins, CO 06/2015
29. University of California, Riverside, Riverside, CA 06/2015
28. University of North Carolina, Department of Biostatistics, Chapel Hill, NC 04/2015
27. University of California, San Diego, Department of Family Medicine and Public Health, San Diego, CA 04/2015

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| 26. Manhattan College, Department of Mathematics, New York, NY | 03/2015 |
| 25. University of California, Berkeley, Department of Biostatistics, Berkeley, CA | 01/2015 |
| 24. University of California, Davis, Department of Statistics, Davis, CA | 01/2015 |
| 23. RAND Corporation, Santa Monica, CA | 11/2014 |
| 22. University of South Carolina, Department of Statistics, Columbia, SC | 10/2014 |
| 21. 2014 Joint Statistical Meeting, Boston, MA | 08/2014 |
| 20. Australian Statistical Conference/Institute of Mathematical Statistics Annual Meeting, Australian Technology Park Sydney, Australia | 07/2014 |
| 19. The Ninth International Chinese Statistical Association (ICSA) International Conference: Challenges of Statistical Methods for Interdisciplinary Research and Big Data, Hong Kong Baptist University, Hong Kong | 12/2013 |
| 18. Columbia University, Department of Biostatistics, New York, NY | 09/2013 |
| 17. 2013 Joint Statistical Meeting, Montréal, Québec, Canada | 08/2013 |
| 16. Western North American Region (WNAR) Conference, Los Angeles, CA | 06/2013 |
| 15. Sam Houston State University, Department of Mathematics and Statistics, Huntsville, TX | 02/2013 |
| 14. The Australian National University, Mathematical Sciences Institute, Canberra, New South Wales, Australia | 11/2012 |
| 13. The University of Melbourne, School of Mathematics and Statistics, Melbourne, Victoria, Australia | 11/2012 |
| 12. The University of Sydney, School of Mathematics and Statistics, Sydney, New South Wales, Australia | 11/2012 |
| 11. International Chinese Statistical Association (ICSA) Applied Symposium, Boston, MA | 06/2012 |
| 10. 8th Annual Texas A&M University System (TAMUS) Louis Stokes Alliance for Minority Participation (LSAMP) Symposium, Corpus Christi, TX | 02/2012 |
| 9. Statistical Inverse Problems Workshop, College Station, TX | 05/2012 |

Contributed Presentations

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| 8. Huntington Study Group, 9th Annual HD Clinical Research Symposium, Tampa Bay, FL | 10/2015 |
| 7. Huntington Study Group, 8th Annual HD Clinical Research Symposium, Minneapolis, MN | 11/2014 |
| 6. Western North American Region Conference, Honolulu, HI | 06/2014 |
| 5. University of Florida Winter Workshop: Dimension Reduction and High Dimensional Inference, Gainesville, FL | 01/2014 |
| 4. Huntington Study Group, 7th Annual HD Clinical Research Symposium, Charlotte, NC | 11/2013 |
| 3. Eastern Northern American Region (ENAR) Annual Meeting, Miami, FL | 03/2011 |
| 2. Emerging Researchers National Conference in Science, Technology, Engineering and Mathematics, Washington, DC | 02/2011 |
| 1. The National GEM Consortium Annual Meeting, Vienna, VA | 08/2010 |

Master of Science Committees

Texas A&M University

Department of Statistics

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| Leo Lazcano | 2019 |
| Vanessa McMahan | 2019 |
| Genti Ndrevataj | 2019 |
| Timothy Parker | 2019 |
| Carroll Patton | 2019 |
| Michelle Perez | 2019 |
| Christopher Phelan | 2019 |
| Weixi Zhu | 2019 |

Department of Epidemiology and Biostatistics

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| Karen Fischer | 2016 |
| Timothy Erickson | 2015 |
| John Coppin | 2014 |
| I-Chia Liao | 2014 |

Service to the Profession

Professional Organizations

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| Eastern Northern American Region/International Biometric Society (ENAR) Regional Advisory Board (RAB) Chair | 2021-2023 |
| Eastern Northern American Region/International Biometric Society (ENAR) Regional Advisory Board (RAB) Co-Chair | 2020-2021 |
| Eastern Northern American Region/International Biometric Society (ENAR) Diversity Workshop Panelist | 2020 |
| Eastern Northern American Region/International Biometric Society (ENAR) Regional Advisory Board Member (RAB) | 2019-2021 |
| International Symposium on Forecasting Early Career Researcher Mentor | 06/2019 |
| American Statistical Association Biometrics Section Strategic Initiative Chair, "Developing the next Generation of Biostatisticians" | 2018- |
| Biometrics Eastern Northern American Region/International Biometric Society (ENAR) Program Representative, Atlanta, GA | 2017-2018 |
| American Statistical Association Biometrics Section Strategic Initiative Co-Chair, "Developing the next Generation of Biostatisticians" | 2016-2018 |
| Student Paper Competition Judge, Western Northern American Region/Institute of Mathematical Sciences, Boise, ID | 06/2015 |

Scientific Review Groups and Expert Panels

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| Huntington Disease Society of America Scientific Advisory Board Member | 2020-Present |
| UK Medical Research Council Grant Reviewer | 2020 |

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| National Institutes of Health (NIH) Musculoskeletal Rehabilitation Sciences Study (MRS) Section Panel Member | 2020 |
| National Science Foundation CAREER Panel Member | 2019 |
| National Science Foundation Statistics Panel Member | 2019 |
| Natural Sciences and Engineering Research Council of Canada (NSERC) Mathematics and Statistics Discovery Program | 2018 |
| E-Rare Transnational research projects on hypothesis-driven use of multi-omic integrated approaches for discovery of diseases causes and/or functional validation in the context of rare diseases | 2018 |

Editorial Service

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| Associate Editor of <i>Biostatistics</i> | 01/2019- |
| Journal Referee | 01/2013- |
| Annals of Statistics | |
| Australia New Zealand Journal of Statistics | |
| Bioinformatics | |
| Biometrics | |
| BMC Bioinformatics | |
| BMC Medical Research Methodology | |
| The Canadian Journal of Statistics | |
| Computational Statistics and Data Analysis | |
| Hacettepe Journal of Mathematics and Statistics | |
| Journal of the American Statistical Association | |
| Journal of Multivariate Analysis | |
| PLOS One | |
| Science Reports | |
| Statistica Sinica | |
| Statistics | |
| Statistics and Probability Letters | |
| Statistics in Medicine | |
| The American Statistician | |
| The Canadian Journal of Statistics | |
| Transportation Research Part A: Policy and Practice | |

External Reviewer

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| Tenure and Promotion Referee, The University of Sydney | 04/2019 |
| Tenure and Promotion Referee, Le Moyne College | 04/2016 |
| Doctoral dissertation of Jinqing Li, Macquarie University, Statistics Department, Australia | 2014 |

Conference and Symposia Organization

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| Co-Organizer, StatFest 2020, Indianapolis, IN | 09/2020 |
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| Invited Session Organizer, “New directions for nonparametric methods in data science,” International Society for Non-Parametric Statistics (ISNPS), Salerno, Italy | 06/2018 |
| Invited Session Organizer, “Rich data visualizations for informative health care decisions,” Eastern Northern American Region/International Biometric Society (ENAR), Atlanta, GA | 03/2018 |
| Invited Session Organizer, “Dynamic modeling for timely health care decisions,” Joint Statistical Meeting (JSM), Baltimore, MD | 07/2017 |
| Invited Session Organizer, “Innovative Techniques Towards More Precise Modeling,” 61st Brazilian Regional Meeting, Salvador, Brazil* | 05/2016 |
| *Cancelled due to Zika virus. | |
| Invited Session Organizer, “Innovative Techniques Towards Solving the Complexities of Biomarker Discovery,” 2016 ENAR, Austin, TX | 03/2016 |
| Invited Session Organizer, “Navigating Your Career for Success at the NSF Career Award,” 2015 SACNAS National Conference, National Harbor, MD | 10/2015 |
| Eastern Northern American Region/International Biometric Society (ENAR) Junior Researchers Workshop Co-Organizer, Miami, FL | 03/2015 |
| Invited Session Organizer, “Recent Advances in Spatial Statistics Techniques and their Applications to Public Health and Biological Sciences,” Western Northern American Region/Institute of Mathematical Sciences, Boise, ID | 06/2015 |

Service to Texas A&M University

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| ADVANCE Early Career Faculty Mentor | 12/2019- |
| Panel Speaker, The Texas A&M System AGEP Alliance “The next steps after the post-doc: The do’s and must do’s” | 11/2019 |
| Research Committee Member, Texas A&M School of Public Health | 09/2013-07/2018 |
| Panel Speaker, “Why I Chose the Post-Doc Route,” Alliance for Graduate Education and the Professoriate (TAMUS AGEP) Program | 11/2017 |
| Association of Former Students’ College-Level Teaching Awards Committee Reviewer | 06/2010-05/2011 |
| Panel Speaker, Advice on Graduate School Admittance, 5th Annual TAMUS LSAMP Symposium | 02/2009 |

Service to Biostatistics Department at UNC Chapel Hill

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| Seminar Organizer Co-Chair | 2020- |
| Awards Committee Member | 2020- |

Service to Statistics Department at Texas A&M University

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| Faculty Advisory Committee Member | 2019-2020 |
| MS Program Committee Member (including online MS) | 2018-2020 |
| “Statistical Significance Workshop”, Co-Organizer at Texas A&M University | 2019 |
| Undergraduate Committee Member (including online MS) | 2018-2019 |

Service to Biostatistics and Epidemiology Department at Texas A&M University

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| Admissions Committee | 01/2013-08/2018 |
| Student Research Poster Competition Judge at Public Health Week | 2014-2018 |
| Department of Epidemiology and Biostatistics, Texas A&M School of Public Health Seminar Organizer | 2013-2018 |
| “Measurement Error and Complex Data Workshop” Co-Organizer Texas A&M University, College Station, TX | 04/2016 |
| Faculty Search Committee | 2014-2015 |

Skills

C++, Fortran 77/90, L^AT_EX, Linux, MATLAB, R, Ruby, Stata.

Last updated: August 26, 2020