

Tanya P. Garcia

UNC Chapel Hill

Department of Biostatistics

Gillings School of Global Public Health

Chapel Hill, NC 27516

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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

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| 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 Awarded to top 5% of graduating seniors at University of California, Irvine. | 2003 |
| 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. 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

24. Parast, L., **Garcia, T.P.**, Carroll, R.J., and Ross, R.L. (2020). Robust methods to correct for measurement error when evaluating a surrogate marker. *Biometrics*, in press. pp. 1-25.
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*, doi: 10.1093/biostatistics/kxz068.
22. **Garcia, T.P.** and Parast, L. (2020). Dynamic landmark prediction for mixture models. *Biostatistics*, doi:10.1093/biostatistics/kxz052
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

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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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|---|-----------------|
| Sarah Lotspeich , Postdoctoral Trainee of T32, University of North Carolina Chapel Hill, Gillings School of Public Health, Department of Biostatistics | 06/2021- |
| Unkyung Lee , Postdoctoral Trainee of DHHS-NIH National Cancer Institute T32, Texas A&M University, Department of Statistics | 06/2017-09/2020 |

Doctoral Students Supervised

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| Helal M. El Zaatari , UNC Chapel Hill, Department of Biotatistics Co-Supervised with Michael Kosorok. | 04/2021- |
| 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 Co-Supervised with Mohsen Pourahmadi. | 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 | 07/2019-05/2020 |
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Service on Doctoral and Master of Science Committees

Doctoral Student Committees

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|---|-------|
| Texas A&M University | |
| Department of Statistics | |
| Eli Kravitz (Chair: Raymond J. Carroll) | 2019 |
| Shuai Chen (Chair: Hongwei Zhao and Lan Zhou) | 2015 |
| Department of Mathematics | |
| Lauren Snider | 2019- |

Department of Epidemiology and Biostatistics

Xiaohuan Zhu (Chair: Hongwei Zhao)

2019-

Shubhangi Vasudeo (Chair: Eva Shipp)

2017-

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

Active

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| 11. Co-Investigator , 132323218 PO S9002633 | 07/2020-03/2025 |
| “Study of Latinos - Investigation of Neurocognitive Aging 2,” Study of Latinos, Ancillary study - SOL-INCA2, PI: Gonzalez. | |
| 10. Biostatistician , UL1 TR002489 | 07/2020-02/2023 |
| “North Carolina Translational and Clinical Science Institute (NC TraCS) - Biostatistics, Epidemiology, and Research Design (BERD),” PI: Buse. | |
| 9. Principal Investigator , NIH NINDS, K01NS099343, \$557,406 total | 12/2016-12/2021 |
| “Innovative statistical models for development of first Huntington’s disease progression risk assessment tool.” | |

Completed

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| 8. Statistics Mentor , T32 DHHS-NIH-National Cancer Institute, 0% effort | 08/2017-09/2020 |
| “Nutrition, Biostatistics and Bioinformatics,” PI: 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: Shipp. | |
| 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

59. Connecticut College, Department of Mathematics and Statistics, Houston, TX 10/2020
58. Rice University, Department of Statistics, Houston, TX 10/2020
57. Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers, Oaxaca, Mexico (cancelled due to COVID-19) 08/2020
56. 5th International Society for Non-Parametric Statistics (ISNPS) Meeting, Paphos, Cyprus (cancelled due to COVID-19) 06/2020
55. International Chinese Statistics Association (ICSA) 2020 Applied Statistics Symposium, Houston, TX (cancelled due to COVID-19) 05/2020
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
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 Ndrevaaj | 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 |

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| 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 Soci- ety (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 Re- gion/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 |
| 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 val- idation in the context of rare diseases | 2018 |

Editorial Service

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| Associate Editor of <i>Australian & New Zealand Journal of Statistics</i> | 04/2021- |
| 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 |
| 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 |

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| 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 |

Professional Development

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| Heroic Public Speaking, Core and Grad , Amy and Michael Port | 2021 |
| Grant Foundry Coach Training Program , Marketing Your Science, LLC | 2021 |
| SciFoundry Leadership Program , Marketing Your Science, LLC | 2020-2022 |
| Team Leadership In Research , Stefanie Robel | 2020-2022 |
| Research Success Alliance , Marketing Your Science, LLC | 2018-2022 |
| Grant Foundry , Marketing Your Science, LLC | 2018-2019 |
| Faculty Success Program , National Center for Faculty Development and Diversity, LLC | 2016-2019 |

Skills

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

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