

# Tanya P. Garcia, Ph.D.

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## Education

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

## Positions and Employment

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<b>Affiliate</b> , Carolina Center for Population Aging and Health, UNC-Chapel Hill	2021–Present
<b>Associate Professor of Biostatistics (Tenured)</b> , Gillings School of Global Public Health, UNC-Chapel Hill	2020–Present
<b>Adjunct Associate Professor of Statistics</b> , Texas A&M University	2020–Present
<b>Associate Professor of Statistics (Tenured)</b> , Texas A&M University	2018–2020
<b>Assistant Professor of Biostatistics</b> , Texas A&M School of Public Health	2013–2018
<b>Research Assistant Professor of Statistics</b> , Texas A&M University	2011–2012
<b>Visiting Scholar</b> , The University of Sydney, Australia	2012
<b>Research Assistant</b> , Oak Ridge National Laboratory, Oak Ridge, TN	Summer 2010
<b>Research Assistant</b> , MD Anderson Cancer Center, Houston, TX	Summer 2008
<b>Teaching Assistant</b> , University of Neuchâtel, Neuchâtel, Switzerland	2006–2008
<b>Teaching Assistant</b> , University of Western Ontario, London, Ontario, Canada	2005–2006
<b>Research Assistant</b> , RWTH Institute of Operations Research and Logistics, Aachen, Germany	Summer 2004
<b>Research Assistant</b> , University of California, Irvine, Irvine, CA	2002–2003
<b>Teaching Assistant</b> , University of California, Irvine, Irvine, CA	2001–2003

## Leadership Experience

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<b>Past-Chair</b> , Biometrics Section of the American Statistical Association	2026
<b>Chair</b> , Biometrics Section of the American Statistical Association	2025
<b>Chair-Elect</b> , Biometrics Section of the American Statistical Association	2024

<b>Chair</b> , Invited Scientific Program, Eastern North American Region of the International Biometric Society	2024–2025
<b>Chair</b> , Regional Advisory Board, Eastern North American Region of the International Biometric Society	2021–2023
<b>Co-Chair</b> , Regional Advisory Board, Eastern North American Region of The International Biometric Society	2020–2021
<b>Chair</b> , Seminar Committee, Department of Biostatistics at UNC-Chapel Hill	2020–Present
<b>Science Advisory Board Member</b> , Huntington’s Disease Society of America	2020–Present
<b>Chair</b> , “Developing the Next Generation of Biostatisticians,” a program funded by the Biometrics Section of the American Statistical Association	2018–2023
<b>Co-Chair</b> , “Developing the Next Generation of Biostatisticians,” a program funded by the Biometrics Section of the American Statistical Association	2016–2018
<b>Associate Editor</b> , <i>Australian &amp; New Zealand Journal of Statistics</i>	2021–2024
<b>Associate Editor</b> , <i>Biostatistics</i>	2019–2024
<b>Grant Writing Coach</b> , Grant Foundry, SciFoundry, LLC	2019–2023

## Honors and Awards

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39. **Landis Mentoring Award for Outstanding Mentorship Recipient**, National Institute of Neurological Disorders and Stroke at the National Institutes of Health  
*Annual award for five faculty members excelling in mentorship and training in neuroscience research.* 2024
38. **Elected Fellow**, American Statistical Association  
*Annual award for the top 0.33% of American Statistical Association members, honoring outstanding contributions to statistical science.* 2024
37. **Gertrude M. Cox Award Recipient**, Washington Statistical Society and Research Triangle Institute  
*Annual award for one early to mid-career statistician who has made significant contributions to applied statistics.* 2024
36. **Provost Distinguished Leader**, UNC-Chapel Hill  
*Two-year program for five outstanding mid-career and senior faculty at UNC-Chapel Hill, offering professional development to prepare them for leadership roles by exploring higher education processes, issues, and challenges at the executive level.* 2023–2025
35. **Visiting Scholar**, International Visitor Program, The University of Sydney Mathematical Research Institute  
*Competitive funding for statisticians and mathematicians to engage in meaningful discussions, exchange ideas, and build lasting connections with researchers in Australia.* 2024
34. **Lead Workshop Organizer**, “Bridging statistical strategies for censored covariates,” Banff International Research Station  
*Competitive funding to host a 40-person workshop on emerging areas in statistics and mathematics.* 2024

33. **Featured in Carolina Scientific**, UNC-Chapel Hill 2023  
*A research magazine by UNC-Chapel Hill undergraduates highlighting important and interesting science news and topics.*
32. **Delta Omega Honorary Society Member**, UNC-Chapel Hill 2023  
*Annual award recognizing academic excellence, commitment to public health principles, and outstanding service in public health.*
31. **Featured in UNC Research Endeavors**, UNC-Chapel Hill 2023  
*An online magazine showcasing research and creative work at UNC-Chapel Hill.*
30. **Tyson Academic Leader**, UNC-Chapel Hill 2023–2024  
*One-year program for eight fellows to develop leadership skills, clarify career goals, and build a leadership network on campus and beyond.*
29. **Carolina Women’s Leadership Council Faculty Mentoring Award Recipient**, UNC-Chapel Hill 2022  
*Annual award for three outstanding faculty members who excel in guiding, mentoring, and teaching.*
28. **Honorarium Speaker**, Girls Talk Math Workshop 2021  
*Opportunity to inspire rising 9th–12th grade girls and non-binary students to pursue careers in mathematics and statistics.*
27. **Featured in AMSTAT News Hispanic Heritage Month** 2020  
*The American Statistical Association’s membership magazine.*
26. **Sigma Xi Member**, Texas A&M Chapter 2020  
*One of the oldest and largest international honor societies in science and engineering.*
25. **Inaugural Speaker**, Bioinformatics Research & Application Symposium, Texas A&M University 2019  
*Symposium for exchanging research talks and poster presentations among statisticians, bioinformaticians, and mathematicians.*
24. **Plenary Speaker**, 39th International Symposium on Forecasting 2019  
*Annual international forecasting conference offering the chance to engage with leading forecasting researchers and practitioners worldwide.*
23. **Fellow**, Mentoring Institute for Neuroscience Diversity Scholars 2017–2018  
*Competitive program promoting the advancement of diverse junior faculty in the neurosciences.*
22. **Travel Award Recipient**, Southeastern Conference Grant, Texas A&M University\* 2016–2017  
*\*Awarded but then unable to be used due to collaborator moving to a non-Southeastern Conference university.*
21. **Travel Award Recipient**, 14th Meeting of New Researchers in Statistics and Probability 2012  
*All-expenses-paid travel award to attend a workshop fostering interaction and networking among early-career researchers in statistics and probability.*

20. **Travel Award Recipient**, Society for Advancement of Chicanos/Hispanics & Native Americans in Science National Conference 2012  
*A four-day, all-expenses-paid workshop covering multidisciplinary and multicultural fields in science, technology, engineering, and mathematics.*
19. **Plenary Speaker**, Louis Stokes Alliances for Minority Participation Symposium, Texas A&M University System 2012  
*Symposium featuring research talks and professional development for predoctoral students in science, technology, engineering, and mathematics.*
18. **Travel Award Recipient**, Roadmap for a Successful Academic Career Workshop, Texas A&M University 2012  
*A fully-funded, two-and-a-half-day workshop for postdoctoral and early-career scholars dedicated to pursuing academic careers and advancing diversity in higher education.*
17. **Gertrude M. Cox Scholarship Recipient**, American Statistical Association Caucus for Women in Statistics 2011  
*Annual award for two female predoctoral statisticians recognizing outstanding research, service, and leadership.*
16. **Phi Kappa Phi Member**, Texas A&M Chapter 2011  
*Annual award for the top 10% of seniors and graduate students.*
15. **Travel Award Recipient**, Emerging Researchers National Conference in Science, Technology, Engineering and Mathematics 2011  
*A three-day, all-expenses-paid workshop for graduate and postdoctoral researchers.*
14. **William S. Connor Award Recipient**, Texas A&M University 2010  
*Annual award for the most outstanding student, as determined by faculty, among those passing the preliminary exams.*
13. **Travel Award Recipient**, Building Future Faculty Program, North Carolina State University 2010  
*A two-and-a-half-day, all-expenses-paid workshop for doctoral and postdoctoral scholars interested in academic careers and committed to promoting diversity in higher education.*
12. **Travel Award Recipient**, Negotiating the Ideal Faculty Position, Rice University 2010  
*A two-and-a-half-day, all-expenses-paid workshop empowering women and minority faculty to pursue academic careers in STEM.*
11. **Honorable Mention**, Ford Foundation Predoctoral Fellowship 2010  
*Honorable mention for a three-year predoctoral fellowship.*
10. **Teaching Assistant of the Year in the Sciences Award Recipient**, University of Western Ontario 2006  
*Annual award recognizing innovative teaching by Western's top teaching assistants.*

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| 9. <b>Summa Cum Laude Graduate</b> , School of Physical Sciences, University of California, Irvine                                                  | 2003      |
| <i>Annual award for the top 1% student in their class.</i>                                                                                          |           |
| 8. <b>Mathematics Departmental Service/Undergraduate Service Award Recipient</b> , University of California, Irvine                                 | 2003      |
| <i>Annual award for an outstanding graduating mathematics student with extraordinary research or departmental service.</i>                          |           |
| 7. <b>Outstanding Senior in Mathematics Award Recipient</b> , University of California, Irvine                                                      | 2003      |
| <i>Annual award for a top graduating mathematics student demonstrating exceptional academic merit.</i>                                              |           |
| 6. <b>Phi Beta Kappa Member</b> , University of California, Irvine                                                                                  | 2003      |
| <i>Annual award for the top 5% of graduating seniors.</i>                                                                                           |           |
| 5. <b>Ronald E. McNair Scholar</b> , University of California, Irvine                                                                               | 2002–2003 |
| <i>A competitive program that prepares students for graduate education in any discipline through research, mentoring, and scholarly activities.</i> |           |
| 4. <b>Leadership Scholarship Award Recipient</b> , University of California, Irvine                                                                 | 2000–2002 |
| <i>Annual award for undergraduates aspiring to be practical leaders in their field.</i>                                                             |           |
| 3. <b>The National Dean's List Award Recipient</b> , University of California, Irvine                                                               | 2000–2003 |
| <i>Bi-annual award for undergraduate students with outstanding semester GPAs.</i>                                                                   |           |
| 2. <b>National Society of Collegiate Scholar</b> , University of California, Irvine                                                                 | 2001      |
| <i>Annual award for high-achieving first- and second-year college students.</i>                                                                     |           |
| 1. <b>National Hispanic Scholar</b>                                                                                                                 | 2000      |
| <i>Annual award recognizing outstanding Latino or Hispanic students based on GPA, AP scores, and PSAT results.</i>                                  |           |

## Professional Memberships

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American Statistical Association  
 UNC Center for Environmental Health and Susceptibility  
 Eastern North American Region of the International Biometric Society  
 Huntington Study Group  
 Institute of Mathematical Statistics  
 National Society of Collegiate Scholars  
 Phi Beta Kappa  
 Phi Kappa Phi  
 Society for Neuroscience

## Research Interests

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

## Peer-Reviewed Publications

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Underline denotes co-author was a trainee.

## Under Review

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49. Davidson, M.A., Van Mullekom, J.H., Baker, J., Burke, S., Enders, F.T., **Garcia, T.P.**, Hanlon, A.L., Lozano, A.J., Lyons, G.R., Mandrekar, S.J., Ortega-Villa, A.M., Percival, S., Pomann, G.M., Ratcliffe, S.J., and Sebro, R. Completing the PROPEL Model: Organizational Solutions and Best Practices to Achieve Historically Marginalized Group Equity in Collaborative Statistics and Data Science Units.
48. Van Mullekom, J.H., Davidson, M.A., Baker, J., Burke, S., Enders, F.T., **Garcia, T.P.**, Hanlon, A.L., Lozano, A.J., Lyons, G.R., Mandrekar, S.J., Ortega-Villa, A.M., Percival, S., Pomann, G.M., Ratcliffe, S.J., and Sebro, R. Forming the Foundations of PROPEL: Challenges and Solutions Relative to Power Bases for Historically Marginalized Group Equity in Collaborative Statistics and Data Science.
47. Bradley, C., Ashner, M.C., Kepner, M. **Garcia, T.P.**, Grosser, K.F., Hightshoe, K., Moody, E., Powell, P., Reyes, N., Rosenberg, S., Tapia, A., Wiggins, L., and Daniels, J. Changes over time in maternal ideas about the causes of autism or developmental problems.
46. Sokol, L., Ashner, M.C., Bega, D., Kluger, B., Marder, K., and **Garcia, T.P.** Spiritual well-being and phenoconversion in Huntington disease: Analysis from PHAROS.
45. Lotspeich, S.C. and **Garcia, T.P.** Extrapolation before imputation reduces bias when imputing censored covariates.
44. Holcomb, D.A., Blackwood, A.D., Clerkind, T., Christensen, A., Guidrye, V.T., Harris, A., Hoffman, K., Kotlarz, N., Lee, A., Noble, R.T., Reckling, S., de los Reyes III, F.L., Serre, M.L., **Garcia, T.P.\***, and Engel, L.S.\* (\*shared senior authorship). Estimating rates of change to interpret quantitative wastewater surveillance of disease trends.
43. Dichter, G., Grosser, K.F., Cummings, K., Bradley, C., **Garcia, T.P.**, Tapia, A.L., Pretzel, B., Moody, E.M., Barger, B., Reyes, N.M., Wiggins, L., Fallin, D., Daniels, J.L. Changes in autism traits from early childhood to adolescence in the Study to Explore Early Development.
42. Liu, M.M., Wassim, T., Li, L., Dow, W.H., Llibre, J., Gallo, L., Perreira, K.M., Lamar, M., Daviglus, M.L., Testai, F., **Garcia, T.P.**, Isasi, C., Lipton, R., Hector, G., and Stickel, A. Influence of birthplace and age at migration on cognitive performance and decline among Hispanic/Latino populations in the U.S.: Study of Latinos-Investigation of Neurocognitive Aging (SOL-INCA).
41. Elfassy, T., Dodds, L., Mesa, R.A., Rundek, T., Sharashidze, V., Paidas, M., Daviglus, M., Kominiarek, M.A., Perreira, K.M., Kobayashi, M.A., Stickel, A., **Garcia, T.P.**, Isasi, C.R., Lipton, R.B., and Kulandavelu, S. Associations between hypertensive disorders of pregnancy and cognitive decline, The Hispanic Community Health Study/Study of Latinos, 2008–2017.

## Methodology Papers

40. Loop, M.S., Lotspeich, S.C., **Garcia, T.P.**, and Meyer, M.L. (2024). Accounting for changing error-prone devices when estimating the relationship between change in an exposure and an outcome. *American Journal of Epidemiology*, in press.
39. Lotspeich, S.C., Ashner, M.C., Vazquez, J.E., Richardson, B.D., Grosser, K.F., Bodek, B.E., and **Garcia, T.P.** (2024). Making sense of censored covariates: Statistical methods for studies of Huntington’s disease. *Annual Review of Statistics and Its Applications*, in press.
38. Ashner, M.C. and **Garcia, T.P.** (2023). Understanding the implications of a complete case analysis for regression models with a right-censored covariate. *The American Statistician*, doi: 10.1080/00031305.2023.2282629.
37. Kim, R., Pourahmadi, M., and **Garcia, T.P.** (2023). A positive definite thresholding estimator of a covariance matrix and its asymptotic efficiency. *Journal of Multivariate Statistics*, **197**, 105186, doi: 10.1016/j.jmva.2023.105186.
36. Lotspeich, S., Grosser, K.F., and **Garcia, T.P.** (2022). Correcting conditional mean imputation for censored covariates and improving usability. *Biometrical Journal*, **64**, 858-862, doi: 10.1002/bimj.202100250.
35. Parast, L., **Garcia, T.P.**, Carroll, R.J., and Ross, R.L. (2022). Robust methods to correct for measurement error when evaluating a surrogate marker. *Biometrics*, **78**, 9-23, doi: 10.1111/biom.13386.
34. Kim, R., Müller, S., and **Garcia, T.P.** (2021). svReg: Structural varying-coefficient regression to differentiate how regional brain atrophy affects motor impairment for Huntington disease severity groups. *Biometrical Journal*, **63**, 1254–1271, doi: 10.1002/bimj.202000312.
33. Lee, U., Carroll, R.J., Marder, K., Wang, Y., and **Garcia, T.P.** (2021). Estimating disease onset from change points of markers measured with error. *Biostatistics*, **22**, 819-835, doi: 10.1093/biostatistics/kxz068.
32. **Garcia, T.P.** and Parast, L. (2021). Dynamic landmark prediction for mixture models. *Biostatistics*, **22**, 558-574, doi: 10.1093/biostatistics/kxz052.
31. **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.
30. 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.
29. **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, doi: 10.1016/j.jeconom.2017.06.005.
28. **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, doi: 10.1214/17-AOAS1038.
27. **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, doi: 10.1214/16-aoas967.
26. 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, doi: 10.1016/j.jmva.2015.11.014.



25. **Garcia, T.P.** and Ma, Y. (2016). Optimal estimator for logistic model with distribution-free random intercept. *Scandinavian Journal of Statistics*, **43**, 156-171, doi: 10.1111/sjos.12170.
24. 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, doi: 10.1214/14-AOAS730.
23. **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.
22. **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*, **15**, 831-837, doi: 10.1093/bioinformatics/btt608.
21. **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*, **14**, 695-707, doi: 10.1093/biostatistics/kxt012.
20. 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, doi: 10.1080/01621459.2012.
19. **Garcia, T.P.**, Kohli, P., Pourahmadi, M. (2012). Regressograms and mean-covariance models for incomplete longitudinal data. *The American Statistician*, **66**, 85-91, doi: 10.1080/00031305.2012.695935.
18. 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, doi: 10.3141/2279-04.
17. **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, doi: 10.1007/s10985-011-9195-z.
16. Barber, J., Bose, C., Bourlioux, A., Braun, J., Brunelle, E., **Garcia, T.**, Hillen, T., and Ong, B. (2008). Burning issues with PROMETHEUS, the Canada’s wildfire growth simulator. *Canadian Applied Mathematics Quarterly*, **16**, 337-378.
15. **Garcia, T.**, Braun, J., Bryce, R., and Tymstra C. (2008). Smoothing and bootstrapping the PROMETHEUS fire growth model. *Environmetrics*, **19**, 1-13, doi: 10.1002/env.907.

### Application Papers

14. Zhang, Y., Daniels, J., Engel, S., Marshall, S., O’Shea, M., **Garcia, T.P.**, and Schieve, L. (2024). Malpresentation and autism spectrum disorders in the Study to Explore Early Development. *Paediatric and Perinatal Epidemiology*, **00**: 1-11. doi:10.1111/ppe.13082.
13. Lu, Y., Pike, J., Hoogeveen, R., Walker, K.A., Raffield, L., Selvin, E., Avery, C., Engel, S.E., Mielke, M.M., **Garcia, T.P.**, and Palta, P. (2024). Nonalcoholic fatty liver disease and longitudinal change in imaging and plasma biomarkers in Alzheimer’s and vascular pathology, *Neurology*, in press.



12. Senn, M.K., Momin, S.R., Ramesh, G., Allison, M.A., Graff, M., Young, K.L., Goodarzi, M.O., Talvera, G.A., McClain, A.C., Mossavar-Rahmani, Y., **Garcia, T.P.**, and Wood, A.C. (2024). Preliminary evidence that habitual avocado intake is associated with better postprandial, but not fasting, glycemic control in individuals with Type 2 diabetes: Cross-sectional results from the Hispanic Community Health Study / Study of Latinos (HCHS/SOL). *Nutrition, Metabolism and Cardiovascular Diseases*, **33**, 2428-2439, doi: 10.1016/j.numecd.2023.08.002.
11. Lu, Y., Pike, J., Hoogeveen, R., Walker, K.A., Raffield, L., Selvin, E., Avery, C., Engel, S.E., Mielke, M.M., **Garcia, T.P.**, and Palta, P. (2023). Liver integrity over the adult lifespan and the risk of Alzheimer’s disease and related dementias. *Alzheimer’s & Dementia*, doi: 10.1002/alz.13601.
10. Parada, H. Jr., Pichardo, M., Gallo, L.C., Talavera, G.A., McDaniels-Davidson, C., Penedo, F.J., Lee, D.J., Tarraf, W., **Garcia, T.P.**, Daviglus, M.L., González, H.M. (2023). Neurocognitive test performance following cancer among middle-aged and older adults in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL) and the SOL-Investigation of Neurocognitive Aging Ancillary Study. *Cancer Medicine*, **12**, 11860–11870, doi: 10.1002/cam4.5863.
9. Pichardo, C.M., Pichardo, M.S., Gallo, L.C., Talavera, G.A., Sanchez-Johnsen, L.A.P, Pirzada, A., Chambers, E.C., Roy, A.L., Castañeda, S.F., Durazo-Arvizu, R.A., Perreira, K.M., **Garcia, T.P.**, Rodriguez, C., Allison, M., Carlson, J. Daviglus, M.L., and Plascak, J.J. (2023). Association of neighborhood segregation with 6-year incidence of metabolic syndrome in the Hispanic Community Health Study/Study of Latinos. *Annals of Epidemiology*, **78**, 1-8, doi: 10.1016/j.annepidem.2022.11.003.
8. Zhang, Y., Elgart, M., Granot-HersHKovitz, E., Wang, H., Tarraf, W., Ramos, A.R., Stickel, A.M., Zeng, D., **Garcia, T.P.**, Testai, F.D., Wassertheil-Smoller, S., Isasi, C.R., Daviglus, M.L., Kaplan, R., Fornage, M., DeCarli, C., Redline, S., González, H.M., and Sofer, T. (2023). Genetic associations between sleep traits and cognitive aging outcomes in the Hispanic Community Health Study/Study of Latinos, *eBioMedicine*, **87**, 104393, doi: 10.1016/j.ebiom.2022.104393.
7. Granot-HersHKovitz, E., He, S., Bressler, J., Yu, B., Boerwinkle, E., Tarraf, W., Rebholz, C.M., Mosley, T., Kristal, B., DeCarli, C., Fornage, M., Chen, G., Qi, Q., Kaplan, R., **Garcia, T.P.**, Gonzalez, H.M., Sofer, T. (2023). Plasma metabolites associated with cognitive function across race/ethnicities affirming the importance of healthy nutrition, *Alzheimer’s and Dementia: The Journal of the Alzheimer’s Association*, **19**, 1331-1342, doi: 10.1002/alz.12786.
6. 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 Edition*, **24**, 1378-1390, doi: 10.2741/4785.
5. 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.
4. **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.

3. **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.

## Books and Chapters

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2. Dutra, J.R.\*, **Garcia, T.P.\*** (\*shared first authorship), Marder, K. (2020). Huntington’s Disease. In Oxford Textbook of Neurological and Neuropsychiatric Epidemiology, editors Carol Brayne, Valery Feigin, Lenore Launer, and Giancarlo Logroscino, doi: 10.1093/med/9780198749493.001.0001.
1. **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.

## Workshops and Podcasts

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<b>Podcast Speaker</b> , Building Up the Nerve National Institute of Neurological Disorders and Stroke	2024
<b>Workshop Co-Creator &amp; Speaker</b> , Mentoring in Statistical Writing: Tools for Teaching and Energizing the Statistical Writing of Your Mentees, Eastern North American Region of the International Biometric Society Webinar (WebENAR)	2024
<b>Workshop Creator &amp; Speaker</b> , Building Your Creativity and Delivering Effective Feedback, Sydney Mathematical Research Institute, University of Sydney	2024
<b>Workshop Creator &amp; Speaker</b> , Framing Your Idea, Sydney Mathematical Research Institute, University of Sydney	2024
<b>Workshop Creator &amp; Speaker</b> , How to Engage with ‘Over-Your-Head’ Research, Sydney Mathematical Research Institute, University of Sydney	2024
<b>Workshop Co-Creator &amp; Speaker</b> , Mentoring in Statistical Writing: Tools for Teaching and Energizing the Statistical Writing of Your Mentees, Eastern North American Region of the International Biometric Society Meeting	2024
<b>Workshop Lead Organizer</b> , Bridging Statistical Strategies for Censored Covariates, Banff International Research Station	2024
<b>Workshop Creator &amp; Speaker</b> , How to Engage with ‘Over-Your-Head’ Research Talks, UNC-Chapel Hill	2021, 2023
<b>Workshop Creator &amp; Speaker</b> , Create Spicy Science, UNC-Chapel Hill	2021
<b>Workshop Co-Organizer</b> , StatFest, Virtual	2020
<b>Workshop Co-Organizer</b> , Statistical Significance Workshop, Department of Statistics, Texas A&M University	2019
<b>Workshop Co-Organizer</b> , Measurement Error and Complex Data Workshop, Department of Statistics, Texas A&M University	2016
<b>Workshop Co-Organizer</b> , Junior Researchers Workshop, Eastern North American Region of the International Biometric Society Meeting	2015

## Teaching

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### **UNC-Chapel Hill**, Chapel Hill, NC

Instructor, Longitudinal Data Analysis (Spring Semester, 35-40 students)	2023, 2024
Instructor, Probability and Statistical Inference II (Spring Semester, 35-40 students)	2022
Instructor, Biostatistics Seminars (50-60 students)	2020–2023

### **Texas A&M University**, College Station, TX

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

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)	2013

### **University of Neuchâtel**, Neuchâtel, Switzerland

Teaching Assistant, Calculus and Linear Models, Course 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, Ontario, Canada

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

### **University of California, Irvine**, Irvine, CA

Teaching Assistant, Statistics, Summer Bridge ( $\approx 20$ students)	Summer 2002
Tutor, Mathematics, Learning and Academic Resource Center ( $\approx 8$ students)	09/2001–06/2003

## Advising and Formal Mentoring

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### Early Career Mentoring

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<b>Ethan Alt</b> , Department of Biostatistics, UNC-Chapel Hill Next position: Senior Biostatistician at Glaxo Kline Smith	2022–2024
<b>David Holcomb</b> , Department of Epidemiology, UNC-Chapel Hill Next position: Epidemiologist at the Centers for Disease Control and Prevention	2022–2024
<b>Lina Montoya</b> , Department of Biostatistics, UNC-Chapel Hill Next position: Assistant Professor at UNC-Chapel Hill	2021–2024
<b>Adaobi Anakwe</b> , Department of Epidemiology, Saint Louis University (Diversity Mentoring Program of the American Statistical Association) Next position: Assistant Professor at Drexel University	2020–2021
<b>Irina Bobkova</b> , Department of Mathematics, Texas A&M University (ADVANCE Early Career Faculty Mentor) Next position: Assistant Professor at Texas A&M University	2019–2020

<b>Irina Gaynanova</b> , Department of Statistics, Texas A&M University Next position: Associate Professor (tenured) at the University of Michigan	2018–2021
<b>Ibraheem Karaye</b> , Department of Epidemiology and Biostatistics, Texas A&M School of Public Health Next position: Assistant Professor and Director of the Health Science Program at Hofstra University	2015–2020

### Postdoctoral Fellows Supervised

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<b>Sarah Lotspeich</b> , Department of Biostatistics, UNC-Chapel Hill Next position: Assistant Professor at Wake Forest University	2021–2022
<b>Unkyung Lee</b> , Department of Statistics, Texas A&M University Next position: Postdoctoral Associate at U.S. Food and Drug Administration	2017–2020

### Doctoral Students Supervised

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<b>Jesus Vazquez</b> , Department of Biostatistics, UNC-Chapel Hill	2023–Present
<b>Abigail Foes</b> , Department of Biostatistics, UNC-Chapel Hill	2023–Present
<b>Emmanuel Rockwell</b> , Department of Biostatistics, UNC-Chapel Hill	2023–Present
<b>Brian Richardson</b> , Department of Biostatistics, UNC-Chapel Hill	2022–Present
<b>Kyle Grosser</b> , Department of Biostatistics, UNC-Chapel Hill	2020–Present
<b>Marissa Ashner</b> , Department of Biostatistics, UNC-Chapel Hill Next position: Biostatistician III and Graduate Instructor at BERD (Biostatistics, Epidemiology, and Research Design), Duke University	2020–2023
<b>Peter Guan</b> , Department of Biostatistics, UNC-Chapel Hill Next position: Ph.D. student at UNC-Chapel Hill (Garcia: rotation)	2021–2022
<b>Helal M. El-Zaatari</b> , Department of Biostatistics, UNC-Chapel Hill Co-Supervised with Michael Kosorok. Next position: Ph.D. student at UNC-Chapel Hill (Garcia: rotation)	2021–2022
<b>Rakheon Kim</b> , Department of Statistics, Texas A&M University, Co-Supervised with Mohsen Pourahmadi Next position: Assistant Professor at Baylor University.	2018–2022
<b>Satwik Acharyya</b> , Department of Statistics, Texas A&M University Next position: Ph.D. student at Texas A&M University (Garcia: rotation)	Fall 2015

### Master of Science Students Supervised

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<b>Benjamin Bodek</b> , Department of Biostatistics, UNC-Chapel Hill Next position: Unknown	2022–2024
<b>Jesus Vazquez</b> , Department of Biostatistics, UNC-Chapel Hill Next position: Ph.D. student at UNC-Chapel Hill	2021–2023
<b>Alice Yu</b> , Department of Biostatistics, UNC-Chapel Hill Next position: Statistical Analyst at Medpace	Fall 2021

<b>Weixi Zhu</b> , Department of Statistics, Texas A&M University Next position: Ph.D. student at the University of Texas at Austin	2018–2019
<b>Sage Lane</b> , Department of Epidemiology and Biostatistics, Texas A&M School of Public Health Next position: Statistician at NCI, Inc.	Summer 2014

## Undergraduate Students Supervised

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<b>Chen Lin</b> , Visiting Undergraduate Scholar, Department of Statistics, Texas A&M University Next position: Ph.D. student at Yale University	2019–2020
<b>Timothy Gibson</b> , Department of Statistics, The University of Sydney Next position: Unknown	2016–2017

## Service on Doctoral and Master of Science Committees

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### Doctoral Student Committees

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#### UNC-Chapel Hill

##### Department of Biostatistics

Haotian Zou (Chair: Donglin Zeng)	2022–2023
Richard Szelove (Chair: Danyu Lin)	2022–2023
Kushal Shah (Chair: Michael Kosorok)	2022–2023

##### Department of Epidemiology

Michelle Delahanty (Chair: Julie Daniels)	2023–Present
Jahnel Jackson (Chair: Jonathan Berg)	2023–Present
Yifei Lu (Chair: Priya Palta)	2022–2023
Yitian Zhang (Chair: Julie Daniels)	2021–2022

#### Texas A&M University

##### Department of Statistics

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

##### Department of Epidemiology and Biostatistics

Xiaohuan Zhu (Chair: Hongwei Zhao)	2019–2021
Shubhangi Vasudeo (Chair: Eva Shipp)	2017–2022

### Master of Science Committees

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#### Texas A&M University

##### Department of Statistics

Leo Lazcano	2019
Vanessa McMahan	2019
Genti Ndrevataj	2019
Timothy Parker	2019

Carroll Patton	2019
Michelle Perez	2019
Christopher Phelan	2019
Weixi Zhu	2019
<u>Department of Epidemiology and Biostatistics</u>	
Karen Fischer	2016
Timothy Erickson	2015
John Coppin	2014
I-Chia Liao	2014

## Grants and Fellowships

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### Active

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21. **Principal Investigator**, NIH NINDS R01NS131225S 06/2024–05/2028  
Supplement for the Landis Award for Outstanding Mentorship, an annual award from the National Institute of Neurological Disorders and Stroke (NINDS) at the National Institutes of Health (NIH), named in honor of former NINDS Director Dr. Story Landis.
20. **Principal Investigator**, NIH NINDS R01NS131225S 01/2024–12/2025  
Diversity supplement for Mr. Jesus Vazquez.
19. **Principal Investigator**, NIH NINDS R01NS131225S 01/2024–12/2024  
Diversity supplement for Mr. Kyle Grosser.
18. **Principal Investigator**, NIH NINDS R01NS131225 06/2023–05/2028  
“Developing a robust and efficient strategy for censored covariates to improve clinical trial design for neurodegenerative diseases.”
17. **Statistics Mentor**, NIH NIEHS T32ES007018 06/2021–05/2026  
“Biostatistics for research in environmental health,” PI: Fry.
16. **Co-Investigator**, NIH NIBIB R21EB032059 08/2021–04/2025  
“Data-driven modeling and ultrasound-based control of afferent nerve stimulation for tremor suppression,” PI: Sharma.
15. **Co-Investigator**, CDC 1U01DD001293 07/2021–06/2026  
“Component A: North Carolina - Advancing developmental research using SEED and SEED follow-up data,” PI: Daniels.
14. **Co-Investigator**, NIH NIA 132323218 PO S9002633 07/2020–03/2025  
“Study of Latinos - Investigation of neurocognitive aging 2,” Study of Latinos, Ancillary study - SOL-INCA2, PI: Gonzalez.

### Completed

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13. **Biostatistician**, North Carolina Department of Health and Human Services (NCDHHS) 06/2022–05/2023  
 “Expansion in 2022–2023 of NC DHHS/CDC national wastewater surveillance system within the UNC system,” PI: Noble.
12. **Principal Investigator**, CEHS Pilot Project, NIH NIEHS P30ES010126 03/2022–02/2023  
 “Creating robust disease trajectories to test when environmental factors could alter disease progression.”
11. **Biostatistician**, Contract with Northwestern University 06/2022–12/2022  
 “Impact of spiritual well-being on Huntington Disease onset,” PI: Sokol.
10. **Principal Investigator**, NIH NINDS, K01NS099343 12/2016–12/2022  
 “Innovative statistical models for development of first Huntington’s disease progression risk assessment tool.”
9. **Biostatistician**, NIH NCATS UL1 TR002489 07/2020–12/2020  
 “North Carolina Translational and Clinical Science Institute (NC TraCS) - Biostatistics, Epidemiology, and Research Design (BERD),” PI: Buse.
8. **Statistics Mentor**, NIH NCI T32CA090301 08/2017–09/2020  
 “Nutrition, biostatistics and bioinformatics training grant,” PI: Carroll.
7. **Co-Investigator**, NIOSH U54 OH007541-16 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 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 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 08/2010–08/2011
3. **Principal Investigator**, Philanthropic Educational Organization (P.E.O.) Scholar Award 08/2010–08/2011
2. **Principal Investigator**, National Science Foundation’s Texas A&M University System Louis Stokes Alliances for Minority Participation Bridge to the Doctorate Fellowship 08/2008–08/2010
1. **Principal Investigator**, Chancellor’s Opportunity Predoctoral Fellowship, University of California, Berkeley 08/2003–06/2005

## Research Presentations

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## Invited Seminar Speaker

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102. Department of Biostatistics and Data Science, Wake Forest University School of Medicine, Winston-Salem, NC	09/2024
101. Department of Statistics, North Carolina State University, Raleigh, NC	09/2024
100. Mathematical Sciences Institute, The Australian National University, Canberra, New South Wales, Australia	07/2024
99. Department of Mathematics and Statistics, MacQuarie University, Sydney, New South Wales, Australia	07/2024
98. Sydney Mathematical Research Institute, University of Sydney, Sydney, New South Wales, Australia	06/2024
97. Biostatistics Program, Fred Hutchinson Cancer Center, Seattle, WA	05/2024
96. Department of Statistics, University of California, Irvine, Irvine, CA	05/2024
95. Biostatistics Research Branch, Eunice Kennedy Shriver National Institute of Child Health and Human Development, Rockville, MD	05/2024
94. Biostatistics Division, Albert Einstein College of Medicine, Bronx, NY	02/2024
93. Department of Mathematics, University of California, Irvine, Irvine, CA	01/2024
92. Biostatistics Research Branch, National Institute of Allergy and Infectious Diseases, Rockville, MD	12/2023
91. Biostatistics Research Branch, National Cancer Institute, Rockville, MD	12/2023
90. Department of Biostatistics, Vanderbilt University, Nashville, TN	12/2023
89. Department of Preventive Medicine, Northwestern University, Chicago, IL	10/2023
88. National Agricultural Statistics Service, United States Department of Agriculture, Washington, DC	09/2023
87. Department of Biostatistics, University of Pennsylvania, Philadelphia, PA	04/2023
86. Department of Biostatistics and Bioinformatics, Duke University, Durham, NC	03/2023
85. Department of Biostatistics and Data Science, Wake Forest University, Winston-Salem, NC	02/2023
84. Undergraduate Visit Day, Department of Biostatistics, UNC-Chapel Hill, Chapel Hill, NC	11/2022
83. Public Health Foundation, UNC-Chapel Hill, Chapel Hill, NC	10/2022
82. Sleep and Metabolism Lab, Colorado State University, Fort Collins, CO	09/2022
81. Department of Mathematical Sciences, University of Memphis, Memphis, TN	04/2022
80. Department of Statistical Sciences, Southern Methodist University, Dallas, TX	12/2021
79. Department of Statistics, Penn State University, Centre County, PA	11/2021
78. Department of Statistics, Universidade Federal de Pernambuco, Recife, Brazil	07/2021
77. Department of Mathematics and Statistics, Connecticut College, New London, CT	10/2020
76. Department of Statistics, Rice University, Houston, TX	10/2020
75. Department of Biostatistics, University of Pennsylvania, Philadelphia, PA	02/2020
74. Department of Biostatistics, UNC-Chapel Hill, Chapel Hill, NC	09/2019
73. Department of Statistical Science, Southern Methodist University, Dallas, TX	10/2018
72. Department of Statistics, Texas A&M University, College Station, TX	12/2017
71. Department of Statistical Science, Baylor University, Waco, TX	02/2017

70. Department of Statistics, University of California, Riverside, Riverside, CA	06/2015
69. Department of Biostatistics, UNC-Chapel Hill, Chapel Hill, NC	04/2015
68. Department of Family Medicine and Public Health, University of California, San Diego, San Diego, CA	04/2015
67. Department of Mathematics, Manhattan College, New York, NY	03/2015
66. Department of Biostatistics, University of California, Berkeley, Berkeley, CA	01/2015
65. Department of Statistics, University of California, Davis, Davis, CA	01/2015
64. RAND Statistics Group, RAND Corporation, Santa Monica, CA	11/2014
63. Department of Statistics, University of South Carolina, Columbia, SC	10/2014
62. Department of Biostatistics, Columbia University, New York, NY	09/2013
61. Department of Mathematics and Statistics, Sam Houston State University, Huntsville, TX	02/2013
60. Mathematical Sciences Institute, The Australian National University, Canberra, New South Wales, Australia	11/2012
59. School of Mathematics and Statistics, The University of Melbourne, Melbourne, Victoria, Australia	11/2012
58. School of Mathematics and Statistics, The University of Sydney, Sydney, New South Wales, Australia	11/2012
57. Department of Biostatistics and Epidemiology, Texas A&M School of Public Health, College Station, TX	06/2012

### **Invited Conference, Symposium, Meeting, or Workshop Speaker**

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56. Challenges in Neuroimaging Data Analysis, Institute for Mathematical and Statistical Innovation, Chicago, IL	08/2024
55. American Statistical Association Washington Society, Washington, DC	05/2024
54. Women in Science Conference, Northeastern Illinois University, Chicago, IL	03/2024
53. Excellence in Faculty Mentoring Workshop, UNC-Chapel Hill, Chapel Hill, NC	11/2023
52. Women in Statistics and Data Science Conference, Bellevue, WA	10/2023
51. GRAD-Future Workshop, North Carolina State University, Raleigh, NC	06/2023
50. Eastern North American Region of the International Biometric Society Meeting, Nashville, TN	03/2023
49. Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers Workshop, Oaxaca, Mexico	08/2022
48. Joint Statistical Meetings, Washington, D.C.	08/2022
47. Diversity Workshop and Mentoring Program, “Grappling with and Overcoming Isolation,” Joint Statistical Meetings, Washington, D.C.	08/2022
46. Data Science in Action Workshop, Harvard University, Boston, MA	07/2022
45. International Symposium on Nonparametric Statistics, Paphos, Cyprus	06/2022
44. GRAD-Future Workshop, NC State University, Raleigh, NC	05/2022
43. Eastern North American Region of the International Biometric Society Meeting, Houston, TX	03/2022
42. International Conference of the ERCIM WG on Computational and Methodological Statistics, Statistics in Neuroscience, London, England	12/2021

41. Girls Talk Math Workshop, Chapel Hill, NC	07/2021
40. International Chinese Statistical Association Applied Statistics Symposium, Houston, TX (cancelled due to COVID-19)	05/2020
39. Louis Stokes Alliances for Minority Participation Conference, Texas A&M University, College Station, TX	03/2020
38. “The next steps after the post-doc: The do’s and must do’s” Alliance for Graduate Education and the Professoriate Program Conference, Texas A&M University, College Station, TX	11/2019
37. Bioinformatics Research & Application Symposium, Texas A&M University, College Station, TX	10/2019
36. International Conference on Econometrics and Statistics, Taichung, Taiwan	06/2019
35. International Symposium on Forecasting, Thessaloniki, Greece	06/2019
34. Eastern North American Region of the International Biometric Society Meeting, Philadelphia, PA	03/2019
33. Joint Statistical Meetings, Vancouver, British Columbia, Canada	08/2018
32. International Symposium on Nonparametric Statistics, Salerno, Italy	06/2018
31. Institute for Mathematics and its Applications, “Frontiers in Forecasting” Workshop, Minneapolis, MN	02/2018
30. th International Conference of the ERCIM WG on Computational and Methodological Statistics, University of London, UK	12/2017
29. “Why I Chose the Post-Doc Route,” Alliance for Graduate Education and the Professoriate Program Conference, Texas A&M University, College Station, TX	11/2017
28. Joint Statistical Meetings, Baltimore, MD	08/2017
27. Huntington’s Disease Society of America Annual Convention, Schaumburg, IL	06/2017
26. International Conference on Econometrics and Statistics, Hong Kong University of Science and Technology, Hong Kong	06/2017
25. Lifetime Data Science Conference, Storrs, CT	05/2017
24. Huntington Study Group Annual Clinical Research Symposium, Nashville, TN	11/2016
23. Newest Developments and Urgent Issues in Measurement Error and Latent Variable Problems Workshop, Banff, Alberta, Canada	08/2016
22. International Biometrics Conference, Victoria, British Columbia, Canada	07/2016
21. Eastern North American Region of the International Biometric Society Meeting, Austin, TX	03/2016
20. Joint Statistical Meetings, Seattle, WA	08/2015
19. International Symposium on Nonparametric Statistics, Graz, Austria	07/2015
18. International Chinese Statistical Association Applied Symposium, Fort Collins, CO	06/2015
17. Joint Statistical Meetings, Boston, MA	08/2014
16. Australian Statistical Conference/Institute of Mathematical Statistics Annual Meeting, Australian Technology Park Sydney, Australia	07/2014
15. International Chinese Statistical Association International Conference, Hong Kong Baptist University, Hong Kong	12/2013
14. Joint Statistical Meetings, Montréal, Québec, Canada	08/2013

13. Western North American Region of the International Biometric Society Meeting, Los Angeles, CA	06/2013
12. International Chinese Statistical Association Applied Symposium, Boston, MA	06/2012
11. Statistical Inverse Problems Workshop, College Station, TX	05/2012
10. Texas A&M University System Louis Stokes Alliances for Minority Participation Symposium, Corpus Christi, TX	02/2012
9. Advice on Graduate School Admittance, Louis Stokes Alliances for Minority Participation Symposium, Texas A&M University, College Station, TX	02/2009

### Contributed Presentations

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8. Huntington Study Group Annual Clinical Research Symposium, Tampa Bay, FL	10/2015
7. Huntington Study Group Annual Clinical Research Symposium, Minneapolis, MN	11/2014
6. Western North American Region of the International Biometric Society Meeting, Honolulu, HI	06/2014
5. University of Florida Winter Workshop: Dimension Reduction and High Dimensional Inference, Gainesville, FL	01/2014
4. Huntington Study Group Annual Clinical Research Symposium, Charlotte, NC	11/2013
3. Eastern North American Region of the International Biometric Society 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

### Service to the Profession

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#### Professional Organizations

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Judge, DataFest, Eastern North American Region of The International Biometric Society	2024
Member, International Program Committee, International Biometric Conference 2024	2022–2024
Member, Executive Committee, Eastern North American Region of The International Biometric Society	2021–2023
Member, Eastern North American Region of the International Biometric Society Regional Advisory Board	2019–2021
Mentor, Joint Statistical Meetings Diversity Mentoring Program	2020–2021
Panelist, Diversity Workshop at the Eastern North American Region of the International Biometric Society Meeting	2020
Mentor, International Symposium on Forecasting Early Career Researchers Workshop	2019
Program Representative, Biometrics Section of the Eastern North American Region of the International Biometric Society	2017–2018

Judge, Student Paper Competition at the Western North American Region of the International Biometric Society Meeting	2015
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### Scientific Reviewer for Grants and Awards

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National Institutes of Health Clinical Neurodegeneration Translational Neuroscience Study Section	2024
Byar Award, Biometrics Section of the American Statistical Association	2024
National Institutes of Health Analytics and Statistics for Population Research Panel A Study Section	2023
Creativity Hubs Pilot Award Program, UNC-Chapel Hill	2023
Carolina Women's Leadership Council Faculty Mentoring Award, UNC-Chapel Hill	2023
Vanderbilt Biostatistics Development Awards	2022
UK Medical Research Council Grants Panel	2020
National Institutes of Health Musculoskeletal Rehabilitation Sciences Study Section Panel	2020
National Science Foundation CAREER Panel	2019
National Science Foundation Statistics Panel	2019
Natural Sciences and Engineering Research Council of Canada (NSERC) Mathematics and Statistics Discovery Program	2018
E-Rare Transnational Research Projects	2018

### External Reviewer for Career Advancement

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Tenure and Promotion Referee, University of Minnesota	2022
Tenure and Promotion Referee, The University of Sydney	2019
Tenure and Promotion Referee, Le Moyne College	2016
Doctoral dissertation of Jinqing Li, Macquarie University, Statistics Department	2014

### Scientific Reviewer for Research

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Journal Referee	2013–Present
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

## Conference and Symposium Organization

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Invited Session Organizer, “Charting the course through coarsened data ,” CM-Statistics, Berlin, Germany	2023
Invited Session Organizer, “New directions for nonparametric methods in data science,” International Symposium on Nonparametric Statistics, Salerno, Italy	2018
Invited Session Organizer, “Rich data visualizations for informative health care decisions,” Eastern North American Region of the International Biometric Society Meeting, Atlanta, GA	2018
Invited Session Organizer, “Dynamic modeling for timely health care decisions,” Joint Statistical Meetings, Baltimore, MD	2017
Invited Session Organizer, “Innovative Techniques Towards More Precise Modeling,” 61st Brazilian Regional Meeting, Salvador, Brazil*	2016
* <i>Cancelled due to Zika virus.</i>	
Invited Session Organizer, “Innovative Techniques Towards Solving the Complexities of Biomarker Discovery,” Eastern North American of the International Biometric Society Meeting, Austin, TX	2016
Invited Session Organizer, “Navigating Your Career for Success at the NSF Career Award,” 2015 Society for Advancement of Chicanos/Hispanics & Native Americans in Science National Conference, National Harbor, MD	2015
Invited Session Organizer, “Recent Advances in Spatial Statistics Techniques and their Applications to Public Health and Biological Sciences,” Western North American Region of the International Biometric Society Meeting, Boise, ID	2015

## Service to Universities and Departments

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### UNC-Chapel Hill

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Member, Graduate Student Experience Working Group	2024-2025
Member, Biostatistics Chair Search Advisory Committee	2023
Grant Reviewer, Gillings School of Global Public Health Study Section	2023
Member, Selection Committee for the Carolina Women’s Leadership Council Faculty Mentoring Award	2023

Member, Hispanic Community Health Study / Study of Latinos Diversity Committee	2022–Present
Executive Advisory Board Member, Neuroscience Program	2021–Present

### **UNC-Chapel Hill Biostatistics Department**

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Member, Faculty Search Committee	2023–2024
Member, Organizing Committee for Department Faculty Retreat	2023
Member, Doctoral Exam Committee	2023–Present
Member, Search Committee for Executive Events Coordinator	2022–2023
Member, Master Exam Committee	2021–2022
Member, Search Committee for the Director of Collaborative Studies Coordinating Center	2021
Member, Awards Committee	2020–Present

### **Texas A&M University**

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Member, Research Committee, School of Public Health	2013–2018
Reviewer, Association of Former Students' College-Level Teaching Awards	2010–2011

### **Texas A&M Statistics Department**

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Member, Faculty Advisory Committee	2019–2020
Member, Master of Science Admissions	2018–2020
Member, Undergraduate Admissions Committee	2018–2019

### **Texas A&M Biostatistics and Epidemiology Department**

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Member, Admissions Committee	2013–2018
Judge, Student Research Poster Competition at Public Health Week	2014–2018
Seminar Organizer, Department of Epidemiology and Biostatistics	2013–2018
Member, Faculty Search Committee	2014–2015

### **Professional Development**

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Atlantic Coast Conference Academic Leadership Network	2024
Heroic Public Speaking, Amy and Michael Port, LLC	2023
Leadership Development Program, Center for Creative Leadership	2023
Racial Equity Institute, ThirdSpace Action Lab	2023
Women ADVANCE Leadership Program, UNC-Chapel Hill	2022–2023
Grant Foundry Coach Training Program, SciFoundry, LLC	2021–2022
SciFoundry Leadership, SciFoundry, LLC	2019–2023
Team Leadership In Research, Stefanie Robel Consulting, LLC	2020–2022
Research Success Alliance, SciFoundry, LLC	2018–2022
Grant Foundry, SciFoundry, LLC	2018–2019
Faculty Success Program, National Center for Faculty Development and Diversity, LLC	2016–2019



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