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Education

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

Positions and Employment

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

Leadership Experience

Past-Chair, Biometrics Section of the American Statistical Association	2026
Chair, Biometrics Section of the American Statistical Association	2025
Chair-Elect, Biometrics Section of the American Statistical Association	2024

Chair, Invited Scientific Program, Eastern North American Region of the International Biometric Society	2025–2026
Co-Chair, Invited Scientific Program, Eastern North American Region of the International Biometric Society	2024–2025
Chair, Regional Advisory Board, Eastern North American Region of the International Biometric Society	2021–2023
Co-Chair, Regional Advisory Board, Eastern North American Region of The International Biometric Society	2020–2021
Chair, Seminar Committe, Department of Biostatistics at UNC-Chapel Hill	2020–Present
Science Advisory Board Member, Huntington's Disease Society of America	2020–Present
Chair, "Developing the Next Generation of Biostatisticians," a program funded by the Biometrics Section of the American Statistical Association	2018–2023
Co-Chair, "Developing the Next Generation of Biostatisticians," a program funded by the Biometrics Section of the American Statistical Association	2016–2018
Associate Editor, *Australian & New Zealand Journal of Statistics*	2021–2024
Associate Editor, *Biostatistics*	2019–2024
Grant Writing Coach, Grant Foundry, SciFoundry, LLC	2019–2023

Honors and Awards

41. **Keynote Speaker**, The Australian Statistical Conference	2025
Biennial Australian Statistical Conference offering the opportunity to engage with leading statisticians and researchers from Australia and around the world.	
40. **Roy R. Kuebler Award**, UNC-Chapel Hill	2024
Named in memory of Professor Roy R. Kuebler, a pioneer in biostatistics and dedicated educator, this award provides $12,000 annually to support career-enhancing activities for assistant and associate professors in the Department of Biostatistics.	
39. **Landis Mentoring Award for Outstanding Mentorship Recipient**, National Institute of Neurological Disorders and Stroke at the National Institutes of Health	2024
Annual award for five faculty members excelling in mentorship and training in neuroscience research.	
38. **Elected Fellow**, American Statistical Association	2024
Annual award for the top 0.33% of American Statistical Association members, honoring outstanding contributions to statistical science.	
37. **Gertrude M. Cox Award Recipient**, Washington Statistical Society and Research Triangle Institute	2024
Annual award for one early to mid-career statistician who has made significant contributions to applied statistics.	

36. **Provost Distinguished Leader**, UNC-Chapel Hill 2023–2025

   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.

35. **Visiting Scholar**, International Visitor Program, The University of Sydney Mathematical Research Institute 2024

   Competitive funding for statisticians and mathematicians to engage in meaningful discussions, exchange ideas, and build lasting connections with researchers in Australia.

34. **Lead Workshop Organizer**, "Bridging statistical strategies for censored covariates," Banff International Research Station 2024

   Competitive funding to host a 40-person workshop on emerging areas in statistics and mathematics.

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.

9. **Summa Cum Laude Graduate**, School of Physical Sciences, University of California, Irvine — 2003

    Annual award for the top 1% student in their class.

8. **Mathematics Departmental Service/Undergraduate Service Award Recipient**, University of California, Irvine — 2003

    Annual award for an outstanding graduating mathematics student with extraordinary research or departmental service.

7. **Outstanding Senior in Mathematics Award Recipient**, University of California, Irvine — 2003

    Annual award for a top graduating mathematics student demonstrating exceptional academic merit.

6. **Phi Beta Kappa Member**, University of California, Irvine — 2003

    Annual award for the top 5% of graduating seniors.

5. **Ronald E. McNair Scholar**, University of California, Irvine — 2002–2003

    A competitive program that prepares students for graduate education in any discipline through research, mentoring, and scholarly activities.

4. **Leadership Scholarship Award Recipient**, University of California, Irvine — 2000–2002

    Annual award for undergraduates aspiring to be practical leaders in their field.

3. **The National Dean's List Award Recipient**, University of California, Irvine — 2000–2003

    Bi-annual award for undergraduate students with outstanding semester GPAs.

2. **National Society of Collegiate Scholar**, University of California, Irvine — 2001

    Annual award for high-achieving first- and second-year college students.

1. **National Hispanic Scholar**   2000
   Annual award recognizing outstanding Latino or Hispanic students based on GPA, AP scores, and PSAT results.

Grants and Fellowships

Active

22. **Principal Investigator**, Johnstone Donation   06/2025–05/2030
    Donation from The Johnstone Family to advance statistical models for Huntington disease.

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 R01NS131225   06/2023–05/2028
    "Developing a robust and efficient strategy for censored covariates to improve clinical trial design for neurodegenerative diseases."

18. **Statistics Mentor**, NIH NIEHS T32ES007018   06/2021–05/2026
    "Biostatistics for research in environmental health," PI: Fry.

17. **Co-Investigator**, CDC 1U01DD001293   07/2021–06/2026
    "Component A: North Carolina - Advancing developmental research using SEED and SEED follow-up data," PI: Daniels.

16. **Co-Investigator**, NIH NIA 132323218 PO S9002633   07/2020–03/2026
    "Study of Latinos - Investigation of neurocognitive aging 2," Study of Latinos, Ancillary study - SOL-INCA2, PI: Gonzalez.

Completed

15. **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.

14. **Principal Investigator**, NIH NINDS R01NS131225S   01/2024–12/2024
    Diversity supplement for Mr. Kyle Grosser.

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

Peer-Reviewed Publications

Underline denotes co-author was a trainee.

Under Review

55. Xue, X., Moon, S., Ganesh, V., Cai, Q., Chu, Y., Schopp, E., Roque, D., **Garcia, T.P.**, and Sharma, N. Development of Dual-Wearable Ultrasound Arrays with Machine Learning for Real-Time Tremor Characterization and Antagonist Muscle Monitoring.

54. Baek, S., Ma, Y., and **Garcia, T.P.** Testing the Existence of a Clinical Effect.

53. Lee, S.*, Richardson, B.D.* (*shared first authorship), Ma, Y., Marder, K., and **Garcia, T.P.** Robust and efficient estimation in the presence of a randomly right-censored covariate.

52. Vazquez, J.E., Ashner, M.C., Ma, Y., Marder, K., and **Garcia, T.P.** Establishing the parallels and difference between right-censored covariates and missing covariates: Lessons from Huntington disease.

51. Delahanty, M.T., Schieve, L., Engel, S., Fallin, D., **Garcia, T.P.**, Ladd-Acosta, C., Steiner, A., Wood, M., Daniels, J. Fertility treatment, female-factor infertility, and autism spectrum disorder in the study to explore early development.

50. 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.

49. 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.

48. 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.

47. 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.

Published/In Press

Methodology Papers

46. Lotspeich, S.C. and **Garcia, T.P.** (2025). Extrapolation before imputation reduces bias when imputing censored covariates. *Journal of Computational and Graphical Statistics*, 1–17, doi: 10.1080/10618600.2024.2444323.

45. 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). (2024). Estimating rates of change to interpret quantitative wastewater surveillance of disease trends. *Science of the Total Environment Journal*, **951**, 175687, doi: 10.1016/j.scitotenv.2024.175687.

44. Loop, M.S., Lotspeich, S.C., **Garcia, T.P.**, and Meyer, M.L. (2024). Should regression calibration or multiple imputation be used when calibrating different devices in a longitudinal study? *American Journal of Epidemiology*, kwae169, doi: 10.1093/aje/kwae169.

43. 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*, **11**, 255-277, doi: 10.1146/annurev-statistics-040522-095944.

42. <u>Ashner, M.C.</u> and **Garcia, T.P.** (2023). Understanding the implications of a complete case analysis for regression models with a right-censored covariate. *The American Statistician*, **78**, 335–344, doi: 10.1080/00031305.2023.2282629.

41. <u>Kim, R.</u>, 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.

40. <u>Lotspeich, S.</u>, 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.

39. 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.

38. <u>Kim, R.</u>, 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.

37. <u>Lee, U.</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.

36. **Garcia, T.P.** and Parast, L. (2021). Dynamic landmark prediction for mixture models. *Biostatistics*, **22**, 558-574, doi: 10.1093/biostatistics/kxz052.

35. **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.

34. <u>Wei, Y.</u>, 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.

33. **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.

32. **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.

31. **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.

30. 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.

29. **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.

28. 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.

27. **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.

26. **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.

25. **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.

24. 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.

23. **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.

22. 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.

21. **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.

20. 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.

19. **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

18. Delahanty, M.T., Schieve, L., Engel, S., Fallin, D., **Garcia, T.P.**, Ladd-Acosta, C., Steiner, A., Wood, M., Daniels, J. (2025). Periconceptional hormonal contraception use and autism spectrum disorder in the Study to Explore Early Development. *Paediatric and Perinatal Epidemiology*, in press.

17. Bradley, C., Ashner, M.C., Kepner, M. **Garcia, T.P.**, Grosser, K.F., Hightshoe, K., Moody, E., Reyes, N., Rosenberg, S., Tapia, A., Wiggins, L., and Daniels, J. (2025). Mothers' ideas about causes of autism spectrum disorder (ASD): Differences over time and by household experience with ASD. *Journal of Autism and Developmental Disorders*, doi:10.1007/s10803-025-06862-4.

16. Sokol, L., Ashner, M.C., Bega, D., Kluger, B., Marder, K., and **Garcia, T.P.** (2025). Spiritual well-being and phenoconversion in Huntington disease: Analysis from PHAROS. *Journal of Palliative Medicine*, doi: 10.1089/jpm.2024.0227.

15. 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. (2025). 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). *The Gerontologist*, gnaf009, doi: 10.1093/geront/gnaf009.

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*, **38**, 397-407. 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*, **102**, e209203, doi: 10.1212/WNL.0000000000209203.

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

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.

Advising and Formal Mentoring

Early Career Mentoring

Beibo Zhao, Department of Biostatistics, UNC-Chapel Hill	2024–Present
Bryce Rowland, Department of Biostatistics, UNC-Chapel Hill	2024–Present
Ethan Alt, Department of Biostatistics, UNC-Chapel Hill	2022–2024
Next position: Senior Biostatistican at Glaxo Kline Smith	
David Holcomb, Department of Epidemiology, UNC-Chapel Hill	2022–2024
Next position: Epidemiologist at the Centers for Disease Control and Prevention	
Lina Montoya, Department of Biostatistics, UNC-Chapel Hill	2021–2024
Next position: Assistant Professor at UNC-Chapel Hill	
Adaobi Anakwe, Department of Epidemiology, Saint Louis University (Diversity Mentoring Program of the American Statistical Association)	2020–2021
Next position: Assistant Professor at Drexel University	
Irina Bobkova, Department of Mathematics, Texas A&M University (ADVANCE Early Career Faculty Mentor)	2019–2020
Next position: Assistant Professor at Texas A&M University	
Irina Gaynanova, Department of Statistics, Texas A&M University	2018–2021
Next position: Associate Professor (tenured) at the University of Michigan	
Ibraheem Karaye, Department of Epidemiology and Biostatistics, Texas A&M School of Public Health	2015–2020
Next position: Assistant Professor and Director of the Health Science Program at Hofstra University	

Postdoctoral Researchers Supervised

Ruimiao Luo, Department of Biostatistics, UNC-Chapel Hill — 2026–Present

Yuexin Chen, Department of Biostatistics, UNC-Chapel Hill — 2025–Present

Sarah Lotspeich, Department of Biostatistics, UNC-Chapel Hill — 2021–2022
    Next position: Assistant Professor at Wake Forest University

Unkyung Lee, Department of Statistics, Texas A&M University — 2017–2020
    Next position: Postdoctoral researcher at U.S. Food and Drug Administration

Doctoral Students Supervised

Madhuri Raman, Department of Biostatistics, UNC-Chapel Hill — 2024–Present

Abigail Foes, Department of Biostatistics, UNC-Chapel Hill — 2023–Present

Kyle Grosser, Department of Biostatistics, UNC-Chapel Hill — 2020–Present

Jesus Vazquez, Department of Biostatistics, UNC-Chapel Hill — 2023–2025
    Next position: Postdoctoral researcher at Johns Hopkins University

Emmanuel Rockwell, Department of Biostatistics, UNC-Chapel Hill — 2023–2024
    Next position: Ph.D. student at UNC-Chapel Hill (Garcia: rotation)

Brian Richardson, Department of Biostatistics, UNC-Chapel Hill — 2022–2024
    Next position: Ph.D. student at UNC-Chapel Hill (Garcia: rotation)

Marissa Ashner, Department of Biostatistics, UNC-Chapel Hill — 2020–2023
    Next position: Biostatistician III and Graduate Instructor at BERD (Biostatistics, Epidemiology, and Research Design), Duke University

Peter Guan, Department of Biostatistics, UNC-Chapel Hill — 2021–2022
    Next position: Ph.D. student at UNC-Chapel Hill (Garcia: rotation)

Helal M. El-Zaatari, Department of Biostatistics, UNC-Chapel Hill — 2021–2022
    Co-Supervised with Michael Kosorok.
    Next position: Ph.D. student at UNC-Chapel Hill (Garcia: rotation)

Rakheon Kim, Department of Statistics, Texas A&M University, Co-Supervised with Mohsen Pourahmadi — 2018–2022
    Next position: Assistant Professor at Baylor University.

Satwik Acharyya, Department of Statistics, Texas A&M University — Fall 2015
    Next position: Ph.D. student at Texas A&M University (Garcia: rotation)

Master of Science Students Supervised

Yajie He, Department of Biostatistics, UNC-Chapel Hill — 2024–2025
    Next position: Ph.D. student at University of Waterloo

Dewei Lin, Department of Biostatistics, UNC-Chapel Hill — 2024–Present

Benjamin Bodek, Department of Biostatistics, UNC-Chapel Hill — 2022–2024
    Next position: Senior Data Analyst at University of Colorado School of Medicine

Jesus Vazquez, Department of Biostatistics, UNC-Chapel Hill — 2021–2023

Next position: Ph.D. student at UNC-Chapel Hill

Alice Yu, Department of Biostatistics, UNC-Chapel Hill	Fall 2021
Next position: Statistical Analyst at Medpace	
Weixi Zhu, Department of Statistics, Texas A&M University	2018–2019
Next position: Ph.D. student at the University of Texas at Austin	
Sage Lane, Department of Epidemiology and Biostatistics, Texas A&M School of Public Health	Summer 2014
Next position: Statistician at NCI, Inc.	

Undergraduate Students Supervised

Vraj Parikh, Department of Health Policy and Management, UNC-Chapel Hill	2024–Present
Aditya Krishnan, Department of Neuroscience, UNC-Chapel Hill	2024–Present
Sophia Chen Cross, Department of Biostatistics and Department of Mathematics, UNC-Chapel Hill	2024–Present
Stellen Li, Department of Biostatistics and Department of Mathematics, UNC-Chapel Hill	2024–2025
Next position: M.S. student at Harvard University	
Taryn Carter, Department of Neuroscience and Department of Biology, UNC-Chapel Hill	2024–2025
Chen Lin, Visiting Undergraduate Scholar, Department of Statistics, Texas A&M University	2019–2020
Next position: Ph.D. student at Yale University	
Timothy Gibson, Department of Statistics, The University of Sydney	2016–2017
Next position: Unknown	

Teaching

UNC-Chapel Hill, Chapel Hill, NC	
Instructor, Longitudinal Data Analysis (Spring Semester, 30-35 students)	2023–2025
Instructor, Probability and Statistical Inference II (Spring Semester, 30-35 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, ≈ 50 students)	2013
University of Neuchâtel, Neuchâtel, Switzerland	
Teaching Assistant, Calculus and Linear Models, Course taught in French (≈ 60 students)	Spring 2007, 2008
Teaching Assistant, Linear Models, Graduate Level (≈ 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

Speaker Engagements and Educational Outreach

Invited Seminar Speaker

119.	Department of Biostatistics and Data Science, University of Mississippi Medical Center, Jackson, MS	09/2025
118.	Department of Biostatistics, University of Minnesota, School of Public Health, Minneapolis, MN	03/2025
117.	Department of Biostatistics and Data Science, Wake Forest University School of Medicine, Winston-Salem, NC	09/2024
116.	Department of Statistics, North Carolina State University, Raleigh, NC	09/2024
115.	Mathematical Sciences Institute, The Australian National University, Canberra, New South Whales, Australia	07/2024
114.	Department of Mathematics and Statistics, MacQuarie University, Sydney, New South Whales, Australia	07/2024
113.	Sydney Mathematical Research Institute, University of Sydney, Sydney, New South Whales, Australia	06/2024
112.	Biostatistics Program, Fred Hutchinson Cancer Center, Seattle, WA	05/2024
111.	Department of Statistics, University of California, Irvine, Irvine, CA	05/2024
110.	Biostatistics Research Branch, Eunice Kennedy Shriver National Institute of Child Health and Human Development, Rockville, MD	05/2024
109.	Biostatistics Division, Albert Einstein College of Medicine, Bronx, NY	02/2024
108.	Department of Mathematics, University of California, Irvine, Irvine, CA	01/2024
107.	Biostatistics Research Branch, National Institute of Allergy and Infectious Diseases, Rockville, MD	12/2023
106.	Biostatistics Research Branch, National Cancer Institute, Rockville, MD	12/2023
105.	Department of Biostatistics, Vanderbilt University, Nashville, TN	12/2023
104.	Department of Preventive Medicine, Northwestern University, Chicago, IL	10/2023
103.	National Agricultural Statistics Service, United States Department of Agriculture, Washington, DC	09/2023
102.	Department of Biostatistics, University of Pennsylvania, Philadelphia, PA	04/2023
101.	Department of Biostatistics and Bioinformatics, Duke University, Durham, NC	03/2023
100.	Department of Biostatistics and Data Science, Wake Forest University, Winston-Salem, NC	02/2023

99. Undergraduate Visit Day, Department of Biostatistics, UNC-Chapel Hill, Chapel Hill, NC — 11/2022

98. Public Health Foundation, UNC-Chapel Hill, Chapel Hill, NC — 10/2022

97. Sleep and Metabolism Lab, Colorado State University, Fort Collins, CO — 09/2022

96. Department of Mathematical Sciences, University of Memphis, Memphis, TN — 04/2022

95. Department of Statistical Sciences, Southern Methodist University, Dallas, TX — 12/2021

94. Department of Statistics, Penn State University, Centre County, PA — 11/2021

93. Department of Statistics, Universidade Federal de Pernambuco, Recife, Brazil — 07/2021

92. Department of Mathematics and Statistics, Connecticut College, New London, CT — 10/2020

91. Department of Statistics, Rice University, Houston, TX — 10/2020

90. Department of Biostatistics, University of Pennsylvania, Philadelphia, PA — 02/2020

89. Department of Biostatistics, UNC-Chapel Hill, Chapel Hill, NC — 09/2019

88. Department of Statistical Science, Southern Methodist University, Dallas, TX — 10/2018

87. Department of Statistics, Texas A&M University, College Station, TX — 12/2017

86. Department of Statistical Science, Baylor University, Waco, TX — 02/2017

85. Department of Statistics, University of California, Riverside, Riverside, CA — 06/2015

84. Department of Biostatistics, UNC-Chapel Hill, Chapel Hill, NC — 04/2015

83. Department of Family Medicine and Public Health, University of California, San Diego, San Diego, CA — 04/2015

82. Department of Mathematics, Manhattan College, New York, NY — 03/2015

81. Department of Biostatistics, University of California, Berkeley, Berkeley, CA — 01/2015

80. Department of Statistics, University of California, Davis, Davis, CA — 01/2015

79. RAND Statistics Group, RAND Corporation, Santa Monica, CA — 11/2014

78. Department of Statistics, University of South Carolina, Columbia, SC — 10/2014

77. Department of Biostatistics, Columbia University, New York, NY — 09/2013

76. Department of Mathematics and Statistics, Sam Houston State University, Huntsville, TX — 02/2013

75. Mathematical Sciences Institute, The Australian National University, Canberra, New South Wales, Australia — 11/2012

74. School of Mathematics and Statistics, The University of Melbourne, Melbourne, Victoria, Australia — 11/2012

73. School of Mathematics and Statistics, The University of Sydney, Sydney, New South Wales, Australia — 11/2012

72. Department of Biostatistics and Epidemiology, Texas A&M School of Public Health, College Station, TX — 06/2012

Invited Conference, Symposium, Meeting, or Workshop Speaker

71. Western North American Region of the International Biometric Society Meeting, Whistler, British Columbia, Canada — 06/2025

70. Lifetime Data Science Conference, New York, New York — 05/2025

69. International Conference of Robust Statistics, Stresa, Italy — 05/2025

68. Eastern North American Region of the International Biometric Society Meeting, New Orleans, Louisiana — 03/2025

67. El Zoominario, University of Wisconsin, Madison, Wisconsin — 02/2025

66. American Scientist Magazine: "Science by the Slice," Chapel Hill, NC — 01/2025

65. International Day of Women in Statistics and Data Science, Virtual Conference — 10/2024

64. Challenges in Neuroimaging Data Analysis, Institute for Mathematical and Statistical Innovation, Chicago, IL — 08/2024

63. American Statistical Association Washington Society, Washington, DC — 05/2024

62. Women in Science Conference, Northeastern Illinois University, Chicago, IL — 03/2024

61. Excellence in Faculty Mentoring Workshop, UNC-Chapel Hill, Chapel Hill, NC — 11/2023

60. Women in Statistics and Data Science Conference, Bellevue, WA — 10/2023

59. GRAD-Future Workshop, North Carolina State University, Raleigh, NC — 06/2023

58. Eastern North American Region of the International Biometric Society Meeting, Nashville, TN — 03/2023

57. Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers Workshop, Oaxaca, Mexico — 08/2022

56. Joint Statistical Meetings, Washington, D.C. — 08/2022

55. Diversity Workshop and Mentoring Program, "Grappling with and Overcoming Isolation," Joint Statistical Meetings, Washington, D.C. — 08/2022

54. Data Science in Action Workshop, Harvard University, Boston, MA — 07/2022

53. International Symposium on Nonparametric Statistics, Paphos, Cyprus — 06/2022

52. GRAD-Future Workshop, NC State University, Raleigh, NC — 05/2022

51. Eastern North American Region of the International Biometric Society Meeting, Houston, TX — 03/2022

50. International Conference of the ERCIM WG on Computational and Methodological Statistics, Statistics in Neuroscience, London, England — 12/2021

49. Girls Talk Math Workshop, Chapel Hill, NC — 07/2021

48. International Chinese Statistical Association Applied Statistics Symposium, Houston, TX (cancelled due to COVID-19) — 05/2020

47. Louis Stokes Alliances for Minority Participation Conference, Texas A&M University, College Station, TX — 03/2020

46. "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

45. Bioinformatics Research & Application Symposium, Texas A&M University, College Station, TX — 10/2019

44. International Conference on Econometrics and Statistics, Taichung, Taiwan — 06/2019

43. International Symposium on Forecasting, Thessaloniki, Greece — 06/2019

42. Eastern North American Region of the International Biometric Society Meeting, Philadelphia, PA — 03/2019

41. Joint Statistical Meetings, Vancouver, British Columbia, Canada — 08/2018

40. International Symposium on Nonparametric Statistics, Salerno, Italy — 06/2018

39. Institute for Mathematics and its Applications, "Frontiers in Forecasting" Workshop, Minneapolis, MN — 02/2018

38. Tenth International Conference of the ERCIM WG on Computational and Methodological Statistics, University of London, UK	12/2017
37. "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
36. Joint Statistical Meetings, Baltimore, MD	08/2017
35. Huntington's Disease Society of America Annual Convention, Schaumberg, IL	06/2017
34. International Conference on Econometrics and Statistics, Hong Kong University of Science and Technology, Hong Kong	06/2017
33. Lifetime Data Science Conference, Storrs, CT	05/2017
32. Huntington Study Group Annual Clinical Research Symposium, Nashville, TN	11/2016
31. Newest Developments and Urgent Issues in Measurement Error and Latent Variable Problems Workshop, Banff, Alberta, Canada	08/2016
30. International Biometrics Conference, Victoria, British Columbia, Canada	07/2016
29. Eastern North American Region of the International Biometric Society Meeting, Austin, TX	03/2016
28. Joint Statistical Meetings, Seattle, WA	08/2015
27. International Symposium on Nonparametric Statistics, Graz, Austria	07/2015
26. International Chinese Statistical Association Applied Symposium, Fort Collins, CO	06/2015
25. Joint Statistical Meetings, Boston, MA	08/2014
24. Australian Statistical Conference/Institute of Mathematical Statistics Annual Meeting, Australian Technology Park Sydney, Australia	07/2014
23. International Chinese Statistical Association International Conference, Hong Kong Baptist University, Hong Kong	12/2013
22. Joint Statistical Meetings, Montréal, Québec, Canada	08/2013
21. Western North American Region of the International Biometric Society Meeting, Los Angeles, CA	06/2013
20. International Chinese Statistical Association Applied Symposium, Boston, MA	06/2012
19. Statistical Inverse Problems Workshop, College Station, TX	05/2012
18. Texas A&M University System Louis Stokes Alliances for Minority Participation Symposium, Corpus Christi, TX	02/2012
17. Advice on Graduate School Admittance, Louis Stokes Alliances for Minority Participation Symposium, Texas A&M University, College Station, TX	02/2009

Workshops, Podcasts, and Toolkits

16. **WebENAR Speaker**, Tips and Tricks for Abstract Submissions and Student Paper Competitions, Eastern North American Region of the International Biometric Society Meeting	2025
15. **Campus Wide Mentoring Toolkit Co-Creator**, Center for Faculty Excellence, UNC-Chapel Hill	2025
14. **Workshop Creator & Speaker**, The Art of Mentoring, Eastern North American Region of the International Biometric Society Meeting	2025

13. **Podcast Speaker**, Building Up the Nerve, National Institute of Neurological Disorders and Stroke — 2024

12. **Workshop Co-Creator & Speaker**, 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

11. **Workshop Creator & Speaker**, Building Your Creativity and Delivering Effective Feedback, Sydney Mathematical Research Institute, University of Sydney — 2024

10. **Workshop Creator & Speaker**, Framing Your Idea, Sydney Mathematical Research Institute, University of Sydney — 2024

9. **Workshop Creator & Speaker**, How to Engage with 'Over-Your-Head' Research, Sydney Mathematical Research Institute, University of Sydney — 2024

8. **Workshop Co-Creator & Speaker**, 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

7. **Workshop Lead Organizer**, Bridging Statistical Strategies for Censored Covariates, Banff International Research Station — 2024

6. **Workshop Creator & Speaker**, How to Engage with 'Over-Your-Head' Research Talks, UNC-Chapel Hill — 2021, 2023

5. **Workshop Creator & Speaker**, Create Spicy Science, UNC-Chapel Hill — 2021

4. **Workshop Co-Organizer**, StatFest, Virtual — 2020

3. **Workshop Co-Organizer**, Statistical Significance Workshop, Department of Statistics, Texas A&M University — 2019

2. **Workshop Co-Organizer**, Measurement Error and Complex Data Workshop, Department of Statistics, Texas A&M University — 2016

1. **Workshop Co-Organizer**, Junior Researchers Workshop, Eastern North American Region of the International Biometric Society Meeting — 2015

Service to the Profession

Professional Organizations

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

Scientific Reviewer for Grants and Awards

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

Tenure and Promotion Referee, University of Minnesota	2022
Tenure and Promotion Referee, The University of Sydney	2019, 2023, 2025
Tenure and Promotion Referee, Le Moyne College	2016
Doctoral dissertation of Jinqing Li, Macquarie University, Statistics Department	2014

Scientific Reviewer for Research

Journal Referee	2013–Present

    Annals of Statistics
    Australia New Zealand Journal of Statistics
    Bioinformatics
    Biometrics
    BMC Bioninformatics
    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

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* *Cancelled due to Zika virus.*	2016
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

UNC-Chapel Hill

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

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

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

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

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

Service on Doctoral and Master of Science Committees

Doctoral Student Committees

UNC-Chapel Hill

Department of Biostatistics

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

Department of Epidemiology

Michelle Delahanty (Chair: Julie Daniels)	2023–2025

Jahnelle 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

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

Department of Epidemiology and Biostatistics

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

Professional Development

Wayfinder Life Coach Training Program, Martha Beck Inc.	2024-2025
Academic Training Program, iCanStudy Inc.	2024-2025
Leadership Intensive Program, FastTrack Leadership, LLC	2024
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