

Tanya P. Garcia

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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, ON, 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 of the Carolina Center for Population Aging and Health (CCPAH) , The University of North Carolina at Chapel Hill	2021-Present
Associate Professor of Biostatistics (Tenured) , Gillings School of Global Public Health, The University of North Carolina at 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 <i>Fully funded (\$7,200 AUS) four-week invitation by Prof. Samuel Müller and Prof. Alan Welsh.</i>	2012
Research Assistant , Oak Ridge National Lab, 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, ON, 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	2026-2027
Chair , Biometrics Section of the American Statistical Association	2025-2026
Chair-Elect , Biometrics Section of the American Statistical Association	2024-2025

Chair , Invited Scientific Program, Eastern Northern American Region/International Biometric Society	2024-2025
Chair , Regional Advisory Board, Eastern Northern American Region/International Biometric Society	2021-2023
Co-Chair , Regional Advisory Board, Eastern Northern American Region/International Biometric Society	2020-2021
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 , <i>Australian & New Zealand Journal of Statistics</i>	2021-Present
Associate Editor , <i>Biostatistics</i>	2019-Present
Grant Writing Coach , Grant Foundry, SciFoundry, LLC	2020-2022

Honors and Awards

32. **Provost Distinguished Leader**, UNC Chapel Hill 2023-2025
31. **Visiting Scholar, International Visitor Program, The University of Sydney Mathematical Research Institute**, Sydney, Australia 2024
30. **Lead Workshop Organizer**, "Bridging statistical strategies for censored covariates," Banff International Research Station, Banff, Alberta, Canada 2024
29. **Delta Omega Honorary Society Member**, UNC Chapel Hill 2023
28. **Featured in UNC Research Endeavors** 2023
27. **Tyson Academic Leader**, UNC Chapel Hill 2023-2024
Eight fellows are selected annual to develop as future academic leaders.
26. **Carolina Women's Leadership Council Faculty Mentoring Award Recipient** 2022
This award recognizes outstanding faculty members who go the extra mile to guide, mentor and teach. Awarded to 3 out of 100+ applications.
25. **Featured in AMSTAT News Hispanic Heritage Month** 2020
24. **Sigma Xi Member**, Texas A&M Chapter 2020
23. **Plenary Speaker, 39th International Symposium on Forecasting**, Thessaloniki, Greece 2019
22. **Fellow, Mentoring Institute for Neuroscience Diversity Scholars (MINDS)** 2017-2018
NIH NINDS funded program that promotes the advancement of underrepresented independent researchers in neuroscience.

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

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

Professional Memberships

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

Research Interests

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

Peer-Reviewed Publications

Underline denotes co-author was a trainee at the time the paper was developed.

Under Review

46. Grosser, K.F., Lotspeich, S.C., and **Garcia, T.P.** Mission Imputable: Correcting for Berkson Error When Imputing a Censored Covariate.
45. Ashner, M.C. and **Garcia, T.P.** Understanding the implications of a complete case analysis for regression models with a right-censored covariate.
44. Lotspeich, S.C. and **Garcia, T.P.** Escaping the trap: Replacing the trapezoidal rule to better impute censored covariates with their conditional means.

43. Loop, M.S., Lotspeich, S.C., **Garcia, T.P.**, and Meyer, M.L. Accounting for changing error-prone devices when estimating the relationship between change in an exposure and an outcome.
42. Holcomb, D.A., **Garcia, T.P.**, Blackwood, A.D., Clerkind, T., Christensena, 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. , and Engel, L.S. Estimating Rates of Change to Interpret Quantitative Wastewater Surveillance of Disease Trends.
41. Dichter, G., Grosser, K., 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.
40. 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).
39. 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. Nonalcoholic fatty liver disease and longitudinal change in imaging and plasma biomarkers in Alzheimer's and vascular pathology.
38. 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. Liver integrity over the adult lifespan and the risk of Alzheimer's disease and related dementias.
37. Zhang, Y., Daniels, J., Engel, S., Marshall, S., O'Shea, M., **Garcia, T.P.**, and Schieve, L. Malpresentation and autism spectrum disorders in the study to explore early development.
36. 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

35. 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*, in press, pp. 1-15.
34. 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, pp. 1-25.
33. 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*, in press, pp. 1-15.

32. 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.
31. 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.
30. 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 ageing outcomes in the Hispanic Community Health Study/Study of Latinos, *eBioMedicine*, **87**, 104393, doi:10.1016/j.ebiom.2022.104393.
29. 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*, in press, pp. 1-25, doi:10.1002/alz.12786.
28. Lotspeich, S., Grosser, K.F., and **Garcia, T.P.** (2022). Correcting conditional mean imputation for censored covariates and improving usability. *Biometrical Journal*, pp. 1-5, doi: 10.1002/bimj.202100250
27. 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.
26. Parast, L., **Garcia, T.P.**, Carroll, R.J., and Ross, R.L. (2020). Robust methods to correct for measurement error when evaluating a surrogate marker. *Biometrics*, doi: 10.1111/biom.13386.
25. Lee, U., Carroll, R.J., Marder, K., Wang, Y., and **Garcia, T.P.** (2020). Estimating disease onset from change points of markers measured with error. *Biostatistics*, doi: 10.1093/biostatistics/kxz068.
24. **Garcia, T.P.** and Parast, L. (2020). Dynamic landmark prediction for mixture models. *Biostatistics*, doi:10.1093/biostatistics/kxz052.
23. Lee, U., **Garcia, T.P.**, Carroll, R.J., Gilbreath, K. and Wu, G. (2019). Analysis of repeated measures data in nutrition research. *Frontiers in Bioscience, Landmark*, **24**, 1378-1390.
22. 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.
21. **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.

20. 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.
19. **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.
18. **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.
17. **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.
16. **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.
15. **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.
14. 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.
13. **Garcia, T.P.** and Ma, Y. (2015). Optimal estimator for logistic model with distribution-free random intercept. *Scandinavian Journal of Statistics*, **43**, 156-171.
12. 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.
11. **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.
10. **Garcia, T.P.**, Müller, S., Carroll, R.J., and Walzem, R.L. (2014). Identification of important regressor groups, subgroups, and individuals via regularization methods: application to gut microbiome data. *Bioinformatics*, doi: 10.1093/bioinformatics/btt608.
9. **Garcia, T.P.**, Müller, S., Carroll, R.J., Dunn, T.N., Thomas, A.P., Adams, S.H., Pillai, S.D., and Walzem, R.L. (2013). Structured variable selection with q -values. *Biostatistics*, DOI: 10.1093/biostatistics/kxt012.
8. 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.
7. **Garcia, T.P.**, Kohli, P., Pourahmadi, M. (2012). Regressograms and mean-covariance models for incomplete longitudinal data. *The American Statistician*, **66**, 85-91.
6. 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.
5. **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.

4. Barber, J., Bose, C., Bourlioux, A., Braun, J., Brunelle, E., **Garcia, T.**, Hillenk, T., and Ong, B. (2010). Burning issues with PROMETHEUS, the Canada's wildfire growth simulator. *Canadian Applied Mathematics Quarterly*, **16**, 337-378.
3. **Garcia, T.**, Braun, J., Bryce, R., and Tymstra C. (2008). Smoothing and bootstrapping the PROMETHEUS fire growth model. *Environmetrics*, **19**, 1-13.

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. pp. 1-15.
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 Tutorials

Tutorial Co-Organizer & Speaker, "Mentoring in Statistical Writing: Tools for Teaching and Energizing the Statistical Writing of your Mentees," Eastern Northern American Region/International Biometric Society	2024
Lead Workshop Organizer, "Bridging statistical strategies for censored covariates", Banff International Research Station, Banff, Alberta, Canada	2024
Tutorial Organizer & Speaker, "How to Engage with 'Over-Your-Head' Research Talks," University of North Carolina at Chapel Hill, NC	2021, 2023
Workshop Co-Organizer, StatFest 2020, Indianapolis, IN	2020
Workshop Co-Organizer, "Statistical Significance Workshop," Department of Statistics, Texas A&M University	2019
Workshop Co-Organizer, "Measurement Error and Complex Data Workshop," Texas A&M University, College Station, TX	2016
Workshop Co-Organizer, Eastern Northern American Region/International Biometric Society Junior Researchers Workshop, Miami, FL	2015

Teaching

UNC Chapel Hill , Chapel Hill, NC	
Instructor, Longitudinal Data Analysis (Spring Semester, 35-40 students)	2023
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 (≈ 60 students)	Spring 2007, 2008
Teaching Assistant, Linear Models, Graduate Level (≈ 15 students)	Fall 2007
Teaching Assistant, Econometrics (≈ 50 students)	Fall 2006
University of Western Ontario , London, ON, Canada	
Teaching Assistant, Operations Research (≈ 30 students)	Spring 2006
Teaching Assistant*, Applied Probability (≈ 50 students)	Fall 2005
*Awarded Teaching Assistant of the Year in the Sciences	
University of California, Irvine , Irvine, CA	
Teaching Assistant, Statistics, Summer Bridge (≈ 20 students)	Summer 2002
Tutor, Mathematics, Learning and Academic Resource Center (≈ 8 students)	09/2001-06/2003

Advising and Formal Mentoring

Faculty Career Mentoring

Ethan Alt , Department of Biostatistics, UNC Chapel Hill	2022-Present
Irina Bobkova , Department of Mathematics, Texas A&M University (ADVANCE Early Career Faculty Mentor)	2019-2020

Postdoctoral Fellows Supervised

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 Associate at FDA.	

Doctoral Students Supervised

Jesus Vazquez , Department of Biostatistics, UNC Chapel Hill	2023-Present
Abigail Foes , Department of Biostatistics, UNC Chapel Hill	2023-Present
Brian Richardson , Department of Biostatistics, UNC Chapel Hill	2022-Present
Kyle Grosser , Department of Biostatistics, UNC Chapel Hill	2020-Present
Marissa Ashner , Department of Biostatistics, UNC Chapel Hill	2020-2023
Next position: Biostatistician III and Graduate Instructor at BERD, Duke University.	
Peter Guan , Department of Biostatistics, UNC Chapel Hill	2021-2022
Helal M. El Zaatari , Department of Biostatistics, UNC Chapel Hill	2021-2022
Co-Supervised with Michael Kosorok.	
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

Master of Science Students Supervised

Benjamin Bodek , Department of Biostatistics, UNC Chapel Hill	2022-Present
Jesus Vazquez , Department of Biostatistics, UNC Chapel Hill	2021-2023
Alice Yu , Department of Biostatistics, UNC Chapel Hill	Fall 2021
Weixi Zhu , Department of Statistics, Texas A&M University	2018-2019
Sage Lane , Department of Epidemiology and Biostatistics , Texas A&M School of Public Health	Summer 2014

Undergraduate Students Supervised

Chen Lin , Visiting Undergraduate Scholar from Fudan University	2019-2020
Timothy Gibson , Department of Statistics, The University of Sydney	2016-2017

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

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 (Chair: 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
<u>Department of Epidemiology and Biostatistics</u>	
Karen Fischer	2016
Timothy Erickson	2015
John Coppin	2014
I-Chia Liao	2014

Grants and Fellowships

Active

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**, T32ES007018 06/2021-05/2026
“Biostatistics for Research in Environmental Health,” PI: Fry.
16. **Co-Investigator**, R21EB032059 08/2021-04/2024
“Data-driven Modeling and Ultrasound-based Control of Afferent Nerve Stimulation for Tremor Suppression,” PI: Sharma.
15. **Co-Investigator**, 1U01DD001293 07/2021-06/2026
“Component A: North Carolina - Advancing Developmental Research using SEED and SEED Follow-up data,” PI: Daniels.
14. **Co-Investigator**, 132323218 PO S9002633 07/2020-03/2025
“Study of Latinos - Investigation of Neurocognitive Aging 2,” Study of Latinos, Ancillary study - SOL-INCA2, PI: Gonzalez.
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”
12. **Biostatistician**, Contract with Northwestern University 06/2022-12/2022
“Impact of Spiritual Well-being on Huntington Disease Onset”

Completed

11. **Principal Investigator**, CEHS Pilot Project P30ES010126 03/2022-02/2023
“Creating robust disease trajectories to test when environmental factors could alter disease progression.”
10. **Principal Investigator**, NIH NINDS, K01NS099343, \$557,406 total 12/2016-12/2022
“Innovative statistical models for development of first Huntington’s disease progression risk assessment tool.”

9. **Biostatistician**, 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**, T32 DHHS-NIH-National Cancer Institute, 0% effort 08/2017-09/2020
 “Nutrition, Biostatistics and Bioinformatics,” PI: Carroll.
7. **Co-Investigator**, U54 OH007541-16, Centers for Agricultural Safety and Health, 0% effort 12/2016-11/2019
 “Leveraging motor vehicle crash data for injury surveillance and research in AFF,” PI: Shipp.
6. **Principal Investigator**, Texas A&M School of Public Health Research Enhancement and Development Initiative (REDI) Grant, \$25,000 total 06/2015-08/2016
 “Identifying high-dimensional neuroimaging biomarkers associated with Huntington’s disease motor onset.”
5. **Principal Investigator**, Huntington’s Disease Society of America (HDSA) Research Fellowship, \$150,000 total 11/2013-11/2015
 “Improved definition and prediction of Huntington’s disease motor-onset using advanced statistical models.”
4. **Principal Investigator**, National Consortium for Graduate Degrees for Minorities in Engineering and Science (GEM) PhD Fellowship, \$30,000 total 2010-2011
3. **Principal Investigator**, Philanthropic Educational Organization (P.E.O.) Scholar Award, \$15,000 total 2010-2011
2. **Principal Investigator**, National Science Foundation’s Texas A&M University System Louis Stokes Alliance for Minority Participation Bridge to the Doctorate Fellowship, \$94,000 total 2008-2010
1. **Principal Investigator**, Chancellor’s Opportunity Predoctoral Fellowship, University of California, Berkeley, \$67,000 total 2003-2005

Research Presentations

Invited Seminar Speaker

90. Department of Biostatistics and Data Science, Wake Forest University School of Medicine, Winston-Salem, NC 05/2024
89. Biostatistics Division, Albert Einstein College of Medicine, Bronx, NY 02/2024
88. Biostatistics Research Branch, National Institute of Allergy and Infectious Diseases, Rockville, MD 12/2023
87. Biostatistics Research Branch, National Cancer Institute, Rockville, MD 12/2023
86. Department of Biostatistics, Vanderbilt University, Nashville, TN 12/2023
85. Department of Preventive Medicine, Northwestern University, Chicago, IL 10/2023
84. National Agricultural Statistics Service, United States Department of Agriculture, Washington, DC 09/2023
83. Department of Biostatistics, University of Pennsylvania, Philadelphia, PA 04/2023

82. Department of Biostatistics and Bioinformatics, Duke University, Durham, NC	03/2023
81. Department of Biostatistics and Data Science, Wake Forest University, Winston-Salem, NC	02/2023
80. Winston-Salem State University Visit, University of North Carolina at Chapel Hill, Chapel Hill, NC	11/2022
79. Public Health Foundation, University of North Carolina at Chapel Hill, Chapel Hill, NC	10/2022
78. Sleep and Metabolism Lab, Colorado State University, Fort Collins, CO	09/2022
77. Department of Mathematical Sciences, University of Memphis, Memphis, TN	04/2022
76. Department of Statistical Sciences, Southern Methodist University, Dallas, TX	12/2021
75. Department of Statistics, Penn State University, Centre County, PA	11/2021
74. Department of Statistics, Universidade Federal de Pernambuco, Recife, Brazil	07/2021
73. Department of Mathematics and Statistics, Connecticut College, New London, CT	10/2020
72. Department of Statistics, Rice University, Houston, TX	10/2020
71. Department of Biostatistics, University of Pennsylvania, Philadelphia, PA	02/2020
70. Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, NC	09/2019
69. Department of Statistical Science, Southern Methodist University, Dallas, TX	10/2018
68. Department of Statistics, Texas A&M University, College Station, TX	12/2017
67. Department of Statistical Science, Baylor University, Waco, TX	02/2017
66. Department of Statistics, University of California, Riverside, Riverside, CA	06/2015
65. Department of Biostatistics, University of North Carolina, Chapel Hill, NC	04/2015
64. Department of Family Medicine and Public Health, University of California, San Diego, San Diego, CA	04/2015
63. Department of Mathematics, Manhattan College, New York, NY	03/2015
62. Department of Biostatistics, University of California, Berkeley, Berkeley, CA	01/2015
61. Department of Statistics, University of California, Davis, Davis, CA	01/2015
60. RAND Statistics Group, RAND Corporation, Santa Monica, CA	11/2014
59. Department of Statistics, University of South Carolina, Columbia, SC	10/2014
58. Department of Biostatistics, Columbia University, New York, NY	09/2013
57. Department of Mathematics and Statistics, Sam Houston State University, Huntsville, TX	02/2013
56. Mathematical Sciences Institute, The Australian National University, Canberra, New South Wales, Australia	11/2012
55. School of Mathematics and Statistics, The University of Melbourne, Melbourne, Victoria, Australia	11/2012
54. School of Mathematics and Statistics, The University of Sydney, Sydney, New South Wales, Australia	11/2012
53. Department of Biostatistics and Epidemiology, Texas A&M School of Public Health, College Station, TX	06/2012

Invited Conference or Symposia Speaker

52. Women in Statistics and Data Science Conference, Bellevue, WA	10/2023
51. GRAD-Future Workshop, NC State University, Raleigh, NC	06/2023
50. Eastern North American Region Annual Meeting, Nashville, TN	03/2023
49. Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers, Oaxaca, Mexico	08/2022
48. Joint Statistical Meeting, Washington, D.C.	08/2022
47. Diversity Workshop and Mentoring Program, “Grappling with and Overcoming Isolation,” Joint Statistics Meeting, Washington, D.C.	08/2022
46. Data Science in Action, Harvard University, Boston, MA	07/2022
45. International Society for Non-Parametric Statistics Meeting, Paphos, Cyprus	06/2022
44. Eastern North American Region Annual Meeting, Houston, TX	03/2022
43. GRAD-Future Workshop, NC State University, Raleigh, NC	05/2022
42. 14th International Conference of the ERCIM WG on Computational and Methodological Statistics, Statistics in Neuroscience, London, England	12/2021
41. Honorarium Speaker , Girls Talk Math, Chapel Hill, NC	07/2021
40. International Chinese Statistics Association Applied Statistics Symposium, Houston, TX (cancelled due to COVID-19)	05/2020
39. Louis Stokes Alliance for Minority Participation, 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, Texas A&M University, College Station, TX	11/2019
37. Inaugural Speaker , 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. Plenary Speaker , International Symposium on Forecasting, Thessaloniki, Greece	06/2019
34. Eastern North American Region Annual Meeting, Philadelphia, PA	03/2019
33. Joint Statistical Meeting, Vancouver, Canada	08/2018
32. International Society for Nonparametric Statistics Meeting, Salerno, Italy	06/2018
31. Institute for Mathematics and its Applications, “Frontiers in Forecasting”, Minneapolis, MN	02/2018
30. 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, Texas A&M University, College Station, TX	11/2017
28. Joint Statistical Meeting, 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, Banff, Alberta, Canada	08/2016
22. International Biometrics Conference, Victoria, Canada	07/2016
21. Eastern North American Region Annual Meeting, Austin, TX	03/2016
20. Joint Statistical Meeting, Seattle, WA	08/2015
19. International Society for Nonparametric Statistics Meeting, Graz, Austria	07/2015
18. International Chinese Statistical Association Applied Symposium, Fort Collins, CO	06/2015
17. Joint Statistical Meeting, 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 Meeting, Montréal, Québec, Canada	08/2013
13. Western North American Region Annual Meeting, Los Angeles, CA	06/2013
12. International Chinese Statistical Association Applied Symposium, Boston, MA	06/2012
11. Plenary Speaker , Texas A&M University System Louis Stokes Alliance for Minority Participation Symposium, Corpus Christi, TX	02/2012
10. Statistical Inverse Problems Workshop, College Station, TX	05/2012
9. Advice on Graduate School Admittance, Louis Stokes Alliance for Minority Participation Symposium, Texas A&M University, College Station, TX	02/2009

Contributed Presentations

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 Annual 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 Northern American Region Annual Meeting, Miami, FL	03/2011
2. Emerging Researchers National Conference in Science, Technology, Engineering and Mathematics, Washington, DC	02/2011
1. The National GEM Consortium Annual Meeting, Vienna, VA	08/2010

Service to the Profession

Professional Organizations

Member, International Program Committee, International Biometric Conference 2024	2022-2024
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Member, Executive Committee, Eastern Northern American Region/International Biometric Society Meeting	2021-2023
Chair, Eastern Northern American Region/International Biometric Society Regional Advisory Board	2021-2023
Co-Chair, Eastern Northern American Region/International Biometric Society Regional Advisory Board	2020-2021
Member, Eastern Northern American Region/International Biometric Society Regional Advisory Board	2019-2021
Mentor, Joint Statistical Meeting Diversity Mentoring Program	2020-2021
Panelist, Diversity Workshop at the Eastern Northern American Region/International Biometric Society Meeting	2020
Mentor, International Symposium on Forecasting Early Career Researchers Workshop	2019
Chair, "Developing the Next Generation of Biostatisticians," a program funded by the Biometrics Section of the American Statistical Association	2018-Present
Co-Chair, "Developing the Next Generation of Biostatisticians," a program funded by the Biometrics Section of the American Statistical Association	2016-2018
Program Representative, Biometrics Section of the Eastern Northern American Region/International Biometric Society Meeting, Atlanta, GA	2017-2018
Judge, Student Paper Competition at the Western Northern American Region/Institute of Mathematical Sciences Meeting, Boise, ID	2015

Scientific Reviewer for Grants and Awards

National Institutes of Health Analytics and Statistics for Population Research Panel A Study Section	2023
UNC Chapel Hill Creativity Hubs Pilot Award Program	2023
UNC Chapel Hill Carolina Women's Leadership Council Faculty Mentoring Award	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
Tenure and Promotion Referee, Le Moyne College	2016
Doctoral dissertation of Jinqing Li, Macquarie University, Statistics Department, Australia	2014

Scientific Reviewer for Research

Associate Editor, <i>Australian & New Zealand Journal of Statistics</i>	2021-Present
Associate Editor, <i>Biostatistics</i>	2019-Present
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	
Haceteppe 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 Symposia 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 Society for Non-Parametric Statistics (ISNPS), Salerno, Italy	2018
Invited Session Organizer, “Rich data visualizations for informative health care decisions,” Eastern Northern American Region/International Biometric Society (ENAR), Atlanta, GA	2018
Invited Session Organizer, “Dynamic modeling for timely health care decisions,” Joint Statistical Meeting (JSM), 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,” 2016 ENAR, Austin, TX	2016
Invited Session Organizer, “Navigating Your Career for Success at the NSF Career Award,” 2015 SACNAS 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 Northern American Region/Institute of Mathematical Sciences, Boise, ID	2015
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Service to Institutes

UNC Chapel Hill

Member, Biostatistics Chair Search Advisory Committee	2023
Grant Reviewer, Gillings Study Section	2023
Grant Reviewer, Creativity Hubs Pilot Award Program	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 Biostatistics Department

Member, Search Committee for tenure-track faculty search	2023-2024
Member, Organizing committee for department faculty retreat	2023
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
Co-Chair, Seminar Committee	2020-Present
Member, Awards Committee	2020-Present

Texas A&M University

Member, Research Committee, Texas A&M 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 Program	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

Professional Development

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

Last updated: October 26, 2023