

# Tanya P. Garcia

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UNC Chapel Hill  
Department of Biostatistics  
Gillings School of Global Public Health  
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## Education

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

## Positions and Employment

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<b>Associate Professor of Biostatistics (Tenured)</b> , Gillings School of Global Public Health, The University of North Carolina at Chapel Hill	2020-Present
<b>Affiliate of the Carolina Center for Population Aging and Health (CCPAH)</b> , The University of North Carolina at Chapel Hill	2021-Present
<b>Associate Professor of Statistics (Tenured)</b> , Texas A&M University	2018-2020
<b>Assistant Professor of Biostatistics</b> , Texas A&M School of Public Health	2013- 2018
<b>Research Assistant Professor of Statistics</b> , Texas A&M University	2011-2012
<b>Visiting Scholar</b> , The University of Sydney, Australia <i>Fully funded (\$7,200 AUS) four-week invitation by Prof. Samuel Müller and Prof. Alan Welsh.</i>	2012
<b>Research Assistant</b> , Oak Ridge National Lab, Oak Ridge, TN	Summer 2010
<b>Research Assistant</b> , MD Anderson Cancer Center, Houston, TX	Summer 2008
<b>Teaching Assistant</b> , University of Neuchâtel, Neuchâtel, Switzerland	2006-2008
<b>Teaching Assistant</b> , University of Western Ontario, London, ON, Canada	2005-2006
<b>Research Assistant</b> , RWTH Institute of Operations Research and Logistics, Aachen, Germany	Summer 2004
<b>Research Assistant</b> , University of California, Irvine, Irvine, CA	2002-2003
<b>Teaching Assistant</b> , University of California, Irvine, Irvine, CA	2001-2003

## Other Professional Experience

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<b>Chair</b> , Biometrics Section of the American Statistical Association	2024-2025
<b>Chair-Elect</b> , Biometrics Section of the American Statistical Association	2023-2024
<b>Chair</b> , Regional Advisory Board, Eastern Northern American Region/International Biometric Society	2021-2023

<b>Co-Chair</b> , Regional Advisory Board, Eastern Northern American Region/International Biometric Society	2020-2021
<b>Science Advisory Board Member</b> , Huntington's Disease Society of America	2020-Present
<b>Chair</b> , "Developing the Next Generation of Biostatisticians," a program funded by the Biometrics Section of the American Statistical Association	2018-Present
<b>Co-Chair</b> , "Developing the Next Generation of Biostatisticians," a program funded by the Biometrics Section of the American Statistical Association	2016-2018
<b>Associate Editor</b> , <i>Australian &amp; New Zealand Journal of Statistics</i>	2021-Present
<b>Associate Editor</b> , <i>Biostatistics</i>	2019-Present
<b>Grant Writing Coach</b> , Grant Foundry, SciFoundry, LLC	2020-2022

## Honors and Awards

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| 31. <b>Visiting Scholar, International Visitor Program, The University of Sydney Mathematical Research Institute</b> , Sydney, Australia   | 2024      |
| 30. <b>Lead Workshop Organizer</b> , "Bridging statistical strategies for censored covariates," Banff International Research Station, Banff, Alberta, Canada   | 2024      |
| 29. <b>Delta Omega Honorary Society Member</b> , UNC Chapel Hill   | 2023      |
| 28. <b>Featured in UNC Research Endeavors</b>  | 2023      |
| 27. <b>Fellow, Tyson Academic Leadership Program</b> , UNC Chapel Hill<br>Eight fellows are selected annual to develop as future academic leaders.   | 2023-2024 |
| 26. <b>Carolina Women's Leadership Council Faculty Mentoring Award Recipient</b><br>This award recognizes outstanding faculty members who go the extra mile to guide, mentor and teach. Awarded to 3 out of 100+ applications.   | 2022      |
| 25. <b>Featured in AMSTAT News Hispanic Heritage Month</b>   | 2020      |
| 24. <b>Sigma Xi Member</b> , Texas A&M Chapter   | 2020      |
| 23. <b>Plenary Speaker, 39th International Symposium on Forecasting</b> , Thessaloniki, Greece   | 2019      |
| 22. <b>Fellow, Mentoring Institute for Neuroscience Diversity Scholars (MINDS)</b><br>NIH NINDS funded program that promotes the advancement of underrepresented independent researchers in neuroscience.  | 2017-2018 |
| 21. <b>Travel Award Recipient, Southeastern Conference Grant, Texas A&amp;M University*</b><br><i>*Awarded but then unable to be used due to collaborator moving to non-SEC university.</i>  | 2016-2017 |
| 20. <b>Travel Award Recipient, 14th Meeting of New Researchers in Statistics and Probability</b> , University of California, San Diego<br>Travel award to attend workshop which promotes interaction and networking among new researchers in statistics and probability. | 2012      |

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
7. **Outstanding Senior in Mathematics Award Recipient**, University of California, Irvine 2003
6. **Phi Beta Kappa Member**, University of California, Irvine 2003  
Awarded to top 5% of graduating seniors at University of California, Irvine.
5. **Ronald E. McNair Scholar**, University of California, Irvine 2002-2003
4. **Leadership Scholarship Award Recipient**, University of California, Irvine 2000-2002

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| 3. <b>The National Dean's List Award Recipient</b> , University of California, Irvine | 2000-2003 |
| 2. <b>National Society of Collegiate Scholar</b> , University of California, Irvine   | 2001      |
| 1. <b>National Hispanic Scholar</b> , University of California, Irvine                | 2000      |

## Professional Memberships

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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

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

## Peer-Reviewed Publications

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

## Under Review

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43. Grosser, K.F., Lotspeich, S.C., and **Garcia, T.P.** Mission Imputable: Correcting for Berkson Error When Imputing a Censored Covariate. pp. 1-25.
42. Ashner, M.C. and **Garcia, T.P.** Back to the basics: exploring the validity of the complete case analysis for regression models with a right-censored covariate. pp. 1-25.
41. Lotspeich, S.C. and **Garcia, T.P.** Escaping the trap: Replacing the trapezoidal rule to better impute censored covariates with their conditional means. pp. 1-25.
40. 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. pp. 1-14.
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. pp. 1-25.
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. pp. 1-16.

37. 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. 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). pp. 1-15.
36. 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. pp. 1-15.
35. 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, pp. 1-24.

### Published/In Press

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34. Lotspeich, S.C., Ashner, M.C., Vazquez, J.E., Richardson, B.D., Grosser, K.F., Bodek, B.E., and **Garcia, T.P.** (2023). 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*, **00**, 1-11, 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

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

## Teaching

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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
<b>Texas A&amp;M Health Science Center</b> , 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
<b>University of Neuchâtel</b> , Neuchâtel, Switzerland	
Teaching Assistant, Calculus and Linear Models, Course taught in French ( $\approx 60$ students)	Spring 2007, 2008
Teaching Assistant, Linear Models, Graduate Level ( $\approx 15$ students)	Fall 2007
Teaching Assistant, Econometrics ( $\approx 50$ students)	Fall 2006
<b>University of Western Ontario</b> , London, ON, Canada	
Teaching Assistant, Operations Research ( $\approx 30$ students)	Spring 2006
Teaching Assistant*, Applied Probability ( $\approx 50$ students)	Fall 2005
*Awarded Teaching Assistant of the Year in the Sciences	
<b>University of California, Irvine</b> , Irvine, CA	
Teaching Assistant, Statistics, Summer Bridge ( $\approx 20$ students)	Summer 2002
Tutor, Mathematics, Learning and Academic Resource Center ( $\approx 8$ students)	09/2001-06/2003

## Advising and Formal Mentoring

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### Faculty Career Mentoring

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

### Postdoctoral Fellows Supervised

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

### Doctoral Students Supervised

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<b>Brian Richardson</b> , Department of Biostatistics, UNC Chapel Hill	2022-Present
<b>Benjamin Bodek</b> , Department of Biostatistics, UNC Chapel Hill	2022-Present
<b>Jesús Vazquez</b> , Department of Biostatistics, UNC Chapel Hill	2021-Present
<b>Peter Guan</b> , Department of Biostatistics, UNC Chapel Hill	2021-2022
<b>Helal M. El Zaatari</b> , Department of Biostatistics, UNC Chapel Hill	2021-2022
Co-Supervised with Michael Kosorok.	
<b>Marissa Ashner</b> , Department of Biostatistics, UNC Chapel Hill	2020-Present
<b>Kyle Grosser</b> , Department of Biostatistics, UNC Chapel Hill	2020-Present



<b>Rakheon Kim</b> , Department of Statistics, Texas A&M University, Co-Supervised with Mohsen Pourahmadi Next position: Assistant Professor at Baylor University.	2018-2022
<b>Satwik Acharyya</b> , Department of Statistics, Texas A&M University	Fall 2015

### Master of Science Students Supervised

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<b>Alice Yu</b> , Department of Biostatistics, UNC Chapel Hill	Fall 2021
<b>Weixi Zhu</b> , Department of Statistics, Texas A&M University	2018-2019
<b>Sage Lane</b> , Department of Epidemiology and Biostatistics , Texas A&M School of Public Health	Summer 2014

### Undergraduate Students Supervised

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

### Service on Doctoral and Master of Science Committees

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#### Doctoral Student Committees

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##### UNC Chapel Hill

##### Department of Biostatistics

Haotian Zou (Chair: Donglin Zeng)	2022-2023
Richard 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

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#### Texas A&M University

##### Department of Statistics

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

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

## Grants and Fellowships

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### Active

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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

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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

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### Invited Seminar Speaker

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83. Biostatistics Research Branch, National Institute of Allergy and Infectious Diseases, Rockville, MD 09/2023
82. Department of Biostatistics, University of Pennsylvania, Philadelphia, PA 04/2023
81. Department of Biostatistics and Bioinformatics, Duke University, Durham, NC 03/2023
80. Department of Biostatistics and Data Science, Wake Forest University, Winston-Salem, NC 02/2023

79. Winston-Salem State University Visit, University of North Carolina at Chapel Hill, Chapel Hill, NC	11/2022
78. Public Health Foundation, University of North Carolina at Chapel Hill, Chapel Hill, NC	10/2022
77. Sleep and Metabolism Lab, Colorado State University, Fort Collins, CO	09/2022
76. Department of Mathematical Sciences, University of Memphis, Memphis, TN	04/2022
75. Department of Statistical Sciences, Southern Methodist University, Dallas, TX	12/2021
74. Department of Statistics, Penn State University, Centre County, PA	11/2021
73. How to engage with over-your-head seminar talks, Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, NC	08/2021
72. Department of Statistics, Universidade Federal de Pernambuco, Recife, Brazil	07/2021
71. Department of Mathematics and Statistics, Connecticut College, New London, CT	10/2020
70. Department of Statistics, Rice University, Houston, TX	10/2020
69. Department of Biostatistics, University of Pennsylvania, Philadelphia, PA	02/2020
68. Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, NC	09/2019
67. Department of Statistical Science, Southern Methodist University, Dallas, TX	10/2018
66. Department of Statistics, Texas A&M University, College Station, TX	12/2017
65. Department of Statistical Science, Baylor University, Waco, TX	02/2017
64. Department of Statistics, University of California, Riverside, Riverside, CA	06/2015
63. Department of Biostatistics, University of North Carolina, Chapel Hill, NC	04/2015
62. Department of Family Medicine and Public Health, University of California, San Diego, San Diego, CA	04/2015
61. Department of Mathematics, Manhattan College, New York, NY	03/2015
60. Department of Biostatistics, University of California, Berkeley, Berkeley, CA	01/2015
59. Department of Statistics, University of California, Davis, Davis, CA	01/2015
58. RAND Statistics Group, RAND Corporation, Santa Monica, CA	11/2014
57. Department of Statistics, University of South Carolina, Columbia, SC	10/2014
56. Department of Biostatistics, Columbia University, New York, NY	09/2013
55. Department of Mathematics and Statistics, Sam Houston State University, Huntsville, TX	02/2013
54. Mathematical Sciences Institute, The Australian National University, Canberra, New South Wales, Australia	11/2012
53. School of Mathematics and Statistics, The University of Melbourne, Melbourne, Victoria, Australia	11/2012
52. School of Mathematics and Statistics, The University of Sydney, Sydney, New South Wales, Australia	11/2012
51. Department of Biostatistics and Epidemiology, Texas A&M School of Public Health, College Station, TX	06/2012

### Invited Conference or Symposia Speaker

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50. Eastern North American Region Annual Meeting, Nashville, TN	03/2023
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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. <b>Honorarium Speaker</b> , 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. <b>Inaugural Speaker</b> , 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. <b>Plenary Speaker</b> , 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. <b>Plenary Speaker</b> , 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

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8. Huntington Study Group Annual Clinical Research Symposium, Tampa Bay, FL	10/2015
7. Huntington Study Group Annual Clinical Research Symposium, Minneapolis, MN	11/2014
6. Western North American Region 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

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#### Professional Organizations

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Member, International Program Committee, International Biometric Conference 2024	2022-2024
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 Re- gion/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 Re- gion/Institute of Mathematical Sciences Meeting, Boise, ID	2015

### Scientific Reviewer for Grants and Awards

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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

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

### Scientific Reviewer for Research

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Associate Editor, <i>Australian &amp; 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  
 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 Symposia Organization

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Lead Workshop Organizer, “Bridging statistical strategies for censored covariates”, Banff International Research Station, Banff, Alberta, Canada	2024
Workshop Co-Organizer, StatFest 2020, Indianapolis, IN	2020
Workshop Co-Organizer, “Statistical Significance Workshop”, Department of Statistics, Texas A&M University	2019
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>	
Workshop Co-Organizer, “Measurement Error and Complex Data Workshop,” Texas A&M University, College Station, TX	2016
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

Workshop Co-Organizer, Eastern Northern American Region/International Biometric Society Junior Researchers Workshop, Miami, FL	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

## Service to Institutes

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### UNC Chapel Hill

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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

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Member, Organizing committee for Biostatistics 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

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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

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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

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

## Professional Development

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<b>Tyson Academic Leadership Program</b> , UNC Chapel Hill	2023-2024
<b>Heroic Public Speaking Program</b> , Amy and Michael Port, LLC	2023
<b>Women ADVANCE Leadership Program</b> , UNC Chapel Hill	2022-2023
<b>Grant Foundry Coach Training Program</b> , SciFoundry, LLC	2021-2023
<b>SciFoundry Leadership Program</b> , SciFoundry, LLC	2019-2023
<b>Team Leadership In Research Program</b> , Stefanie Robel Consulting, LLC	2020-2022
<b>Research Success Alliance Program</b> , SciFoundry, LLC	2018-2022
<b>Grant Foundry Program</b> , SciFoundry, LLC	2018-2019
<b>Faculty Success Program</b> , National Center for Faculty Development and Diversity, LLC	2016-2019

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