Tanya P. Garcia

UNC Chapel Hill Office: McGavran-Greenberg 3104D Department of Biostatistics Email: tpgarcia@email.unc.edu Gillings School of Global Public Health Web: https://tpgarcia.github.io/ Chapel Hill, NC 27516 Education Ph.D., Statistics, Texas A&M University, College Station, TX 2011 Dissertation: Efficient semiparametric estimators for biological, genetic, and measurement error applications. M.Sc., Statistics, University of Western Ontario, London, ON, Canada 2006 Improving the PROMETHEUS model through parameter smoothing. M.S., Industrial Engineering and Operations Research, University of 2005 California, Berkeley, Berkeley, CA B.S., Mathematics, University of California, Irvine, Irvine, CA 2003 Positions and Employment Associate Professor of Biostatistics (Tenured), Gillings School of Global 2020-Present Public Health, The University of North Carolina at Chapel Hill Affiliate of the Carolina Center for Population Aging and Health 2021-Present (CCPAH), The University of North Carolina at Chapel Hill 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 Fully funded (\$7,200 AUS) four-week invitation by Prof. Samuel Müller and Prof. Alan Welsh. 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, Summer 2004 Aachen, Germany Research Assistant, University of California, Irvine, Irvine, CA 2002-2003 **Teaching Assistant**, University of California, Irvine, Irvine, CA 2001-2003 Other Professional Experience Chair, Biometrics Section of the American Statistical Association 2024-2025 Chair-Elect, Biometrics Section of the American Statistical Association 2023-2024 Regional Advisory Board. Eastern Northern American Re-2021-2023 gion/International Biometric Society

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-Present
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-Present
Associate Editor, Biostatistics	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) NIH NINDS funded program that promotes the advancement of underrepresented independent researchers in neuroscience.	2017-2018
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 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 Designed for internal and external women postdoctoral researchers and assistant professors (2 years or less) in STEM fields.	2012
17.	American Statistical Association Gertrude M. Cox Award Recipient (\$2,000) Awarded to 2 out of 1200 female applicants from throughout the US and Canada.	2011
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 Awarded to 100 applicants.	2011
14.	William S. Connor Award Recipient, Texas A&M University Awarded to the student whom the faculty deems the most outstanding among those students passing the preliminary examinations during the 2008-2009 academic year.	2010
13.	Fellow, Building Future Faculty Program, North Carolina State University Awarded to 12 out of 100 applicants from graduate programs throughout the US.	2010
12.	Travel Award Recipient, Negotiating the Ideal Faculty Position, Rice University Awarded to 65 out of 1100 applicants from graduate programs throughout the US.	2010
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 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,	2000-2002
	Irvine	
3.	The National Dean's List Award Recipient, University of California,	2000-2003
	Irvine	
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

- 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. <u>Ashner, M.C.</u> 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. <u>Lotspeich, S.C.</u> 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., <u>Lotspeich, S.C.</u>, **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

- 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. <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*, 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. <u>Lotspeich, S., Grosser, K.F.</u>, 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. <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.
- 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. <u>Lee, U.</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. <u>Lee, U., Garcia, T.P.</u>, 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.

Teaching

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, ≈ 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 ($\approx 50 \text{ students}$)	Fall 2006
University of Western Ontario, London, ON, Canada	
Teaching Assistant, Operations Research ($\approx 30 \text{ students}$)	Spring 2006
Teaching Assistant*, Applied Probability ($\approx 50 \text{ students}$)	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 (AD-	2019-2020
VANCE Early Career Faculty Mentor)	2010 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	

Brian Richardson, Department of Biostatistics, UNC Chapel Hill

Benjamin Bodek, Department of Biostatistics, UNC Chapel Hill Jesús Vazquez, Department of Biostatistics, UNC Chapel Hill

2022-Present

2022-Present

2021-Present

Datas Caras Department of Directativities UNC Changl Hill	0001 0000
Peter Guan, Department of Biostatistics, UNC Chapel Hill Helel M. El Zenteri, Department of Biostatistics, UNC Chapel Hill	2021-2022 2021-2022
Helal M. El Zaatari , Department of Biostatistics, UNC Chapel Hill Co-Supervised with Michael Kosorok.	2021-2022
Marissa Ashner, Department of Biostatistics, UNC Chapel Hill	2020-Present
Kyle Grosser, Department of Biostatistics, UNC Chapel Hill	2020-Present
Rakheon Kim, Department of Statistics, Texas A&M University, Co-	2018-2022
Supervised with Mohsen Pourahmadi	2010 2022
Next position: Assistant Professor at Baylor University.	
Satwik Acharyya, Department of Statistics, Texas A&M University	Fall 2015
Master of Science Students Supervised	
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	Summer 2014
School of Public Health	2011
Undergraduate Students Supervised	
	2010 2020
Chen Lin, Visiting Undergraduate Scholar from Fudan University	2019-2020 2016-2017
	ZU10-ZU11
Timothy Gibson, Department of Statistics, The University of Sydney	
Service on Doctoral and Master of Science Committees	
Service on Doctoral and Master of Science Committees Doctoral Student Committees	
Service on Doctoral and Master of Science Committees Doctoral Student Committees UNC Chapel Hill	
Service on Doctoral and Master of Science Committees Doctoral Student Committees UNC Chapel Hill Department of Biostatistics	
Service on Doctoral and Master of Science Committees Doctoral Student Committees UNC Chapel Hill	2022-2023 2022-2023
Service on Doctoral and Master of Science Committees Doctoral Student Committees UNC Chapel Hill Department of Biostatistics Haotian Zou (Chair: Donglin Zeng)	2022-2023
Service on Doctoral and Master of Science Committees Doctoral Student Committees UNC Chapel Hill Department of Biostatistics Haotian Zou (Chair: Donglin Zeng) Richard Sizelove (Chair: Danyu Lin)	2022-2023 2022-2023
Service on Doctoral and Master of Science Committees Doctoral Student Committees UNC Chapel Hill Department of Biostatistics Haotian Zou (Chair: Donglin Zeng) Richard Sizelove (Chair: Danyu Lin) Kushal Shah (Chair: Michael Kosorok)	2022-2023 2022-2023
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Doctoral Student Committees UNC Chapel Hill Department of Biostatistics Haotian Zou (Chair: Donglin Zeng) Richard Sizelove (Chair: Danyu Lin) Kushal Shah (Chair: Michael Kosorok) Department of Epidemiology Yifei Lu (Chair: Priya Palta) Yitian Zhang (Chair: Julie Daniels) Texas A&M University	2022-2023 2022-2023 2022-2023 2022-2023
Doctoral Student Committees UNC Chapel Hill Department of Biostatistics Haotian Zou (Chair: Donglin Zeng) Richard Sizelove (Chair: Danyu Lin) Kushal Shah (Chair: Michael Kosorok) Department of Epidemiology Yifei Lu (Chair: Priya Palta) Yitian Zhang (Chair: Julie Daniels) Texas A&M University Department of Statistics	2022-2023 2022-2023 2022-2023 2022-2023 2021-2022
Doctoral Student Committees UNC Chapel Hill Department of Biostatistics Haotian Zou (Chair: Donglin Zeng) Richard Sizelove (Chair: Danyu Lin) Kushal Shah (Chair: Michael Kosorok) Department of Epidemiology Yifei Lu (Chair: Priya Palta) Yitian Zhang (Chair: Julie Daniels) Texas A&M University Department of Statistics Eli Kravitz (Chair: Raymond J. Carroll)	2022-2023 2022-2023 2022-2023 2022-2023 2021-2022
Doctoral Student Committees UNC Chapel Hill Department of Biostatistics Haotian Zou (Chair: Donglin Zeng) Richard Sizelove (Chair: Danyu Lin) Kushal Shah (Chair: Michael Kosorok) Department of Epidemiology Yifei Lu (Chair: Priya Palta) Yitian Zhang (Chair: Julie Daniels) Texas A&M University Department of Statistics Eli Kravitz (Chair: Raymond J. Carroll) Shuai Chen (Chair: Hongwei Zhao and Lan Zhou)	2022-2023 2022-2023 2022-2023 2022-2023 2021-2022

Texas A&M University

Master of Science Committees

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

Grants and Fellowships

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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"	

${\bf Completed}$

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 "Innovative statistical models for development of first Huntington's disease progression risk assessment tool."	12/2016-12/2022
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 "Nutrition, Biostatistics and Bioinformatics," PI: Carroll.	08/2017-09/2020
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 "Identifying high-dimensional neuroimaging biomarkers associated with Huntington's disease motor onset."	06/2015-08/2016
5. Principal Investigator , Huntington's Disease Society of America (HDSA) Research Fellowship, \$150,000 total "Improved definition and prediction of Huntington's disease motoronset using advanced statistical models."	11/2013-11/2015
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

83. Biostatistics Research Branch, National Institute of Allergy and Infectious	09/2023
Diseases, Rockville, MD	
82. Department of Biostatistics, University of Pennsylvania, Philadelphia, PA	04/2023
81. Department of Biostatistics and Bioinformatics, Duke University, Durham,	03/2023
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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.	3. How to engage with over-your-head seminar talks, Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, NC		
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.	3. Department of Biostatistics, University of North Carolina, Chapel Hill, NC		
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 Whales, 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 Whales, Australia	11/2012	
51.	Department of Biostatistics and Epidemiology, Texas A&M School of Public Health, College Station, ${\rm TX}$	06/2012	

Invited Conference or Symposia Speaker

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, Schaumberg, 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

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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	•
11. Plenary Speaker , Texas A&M University System Louis Stokes Alliance for Minority Participation Symposium, Corpus Christi, TX	•
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
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

Associate Editor, Australian & New Zealand Journal of Statistics Associate Editor, $Biostatistics$	2021-Present 2019-Present
Scientific Reviewer for Research	0001 D
Doctoral dissertation of Jinqing Li, Macquarie University, Statistics Department, Australia	2014
Tenure and Promotion Referee, Le Moyne College	2016
Tenure and Promotion Referee, The University of Sydney	2019
Tenure and Promotion Referee, University of Minnesota	2022
External Reviewer for Career Advancement	
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E-Rare Transnational Research Projects	2018
Natural Sciences and Engineering Research Council of Canada (NSERC) Mathematics and Statistics Discovery Program	2018
National Science Foundation Statistics Panel	2019
National Science Foundation CAREER Panel	2019
Section Panel	2016
National Institutes of Health Musculoskeletal Rehabilitation Sciences Study	2020
UK Medical Research Council Grants Panel	2020
Vanderbilt Biostatistics Development Awards	2022
UNC Chapel Hill Carolina Women's Leadership Council Faculty Mentoring Award	2023
UNC Chapel Hill Creativity Hubs Pilot Award Program	2023
National Institutes of Health Analytics and Statistics for Population Research Panel A Study Section	2023
Scientific Reviewer for Grants and Awards	
gion/Institute of Mathematical Sciences Meeting, Boise, ID	
Judge, Student Paper Competition at the Western Northern American Re-	2015
Region/International Biometric Society Meeting, Atlanta, GA	
funded by the Biometrics Section of the American Statistical Association Program Representative, Biometrics Section of the Eastern Northern American	2017-2018
Co-Chair, "Developing the Next Generation of Biostatisticians," a program	2016-2018
Chair, "Developing the Next Generation of Biostatisticians," a program funded by the Biometrics Section of the American Statistical Association	2018-Present
Workshop Chain "Davidening the Next Concretion of Direct stictions" a program funded	2010 D
gion/International Biometric Society Meeting Mentor, International Symposium on Forecasting Early Career Researchers	2019
Panelist, Diversity Workshop at the Eastern Northern American Re-	2020
Mentor, Joint Statistical Meeting Diversity Mentoring Program	2020-2021
Member, Eastern Northern American Region/International Biometric Society Regional Advisory Board	2019-2021
Regional Advisory Board	2010 2021
Co-Chair, Eastern Northern American Region/International Biometric Society	2020-2021

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

plexities of Biomarker Discovery," 2016 ENAR, Austin, TX

Conference and Symposia Organization

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* * Cancelled due to Zika virus.	2016
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 Com-	2016

Invited Session Organizer, "Navigating Your Career for Success at the NSF	2015
Career Award," 2015 SACNAS National Conference, National Harbor, MD	
Workshop Co-Organizer, Eastern Northern American Region/International	2015
Biometric Society Junior Researchers Workshop, Miami, FL	
Invited Session Organizer, "Recent Advances in Spatial Statistics Techniques	2015
and their Applications to Public Health and Biological Sciences," Western	
Northern American Region/Institute of Mathematical Sciences, Boise, ID	

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, 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	
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

2013-2018

Seminar Organizer, Department of Epidemiology and Biostatistics

Professional Development

Heroic Public Speaking Program, Amy and Michael Port, LLC	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,	2020-2022
LLC	
Research Success Alliance Program, SciFoundry, LLC	2018-2022
Grant Foundry Program, SciFoundry, LLC	2018-2019
Faculty Success Program, National Center for Faculty Development and	2016-2019
Diversity, LLC	

Last updated: June 10, 2023