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. Summer 2010 Research Assistant, Oak Ridge National Lab, Oak Ridge, TN 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, Regional Advisory Board, Eastern Northern American Re-2021-2023 gion/International Biometric Society Co-Chair, Regional Advisory Board, Eastern Northern American Re-2020-2021 gion/International Biometric Society

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	
29. Lead Workshop Organizer, "Bridging statistical strategies for censored covariates," Banff International Research Station, Banff, Alberta, Canada	2024
28. Featured in UNC Research Endeavors	2023
27. Fellow, Tyson Academic Leadership Program, 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 un- derrepresented 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 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 Awarded to 100 applicants.	2011
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	2010
	University	
	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
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

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

Books and Chapters

- 42. 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.
- 41. **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.

Peer-Reviewed Publications

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

Under Review

- 40. Lotspeich, S.C., <u>Ashner, M.C.</u>, <u>Vazquez, J.E.</u>, <u>Richardson, B.D.</u>, <u>Grosser, K.F.</u>, <u>Bodek, B.E.</u>, and **Garcia**, **T.P.** Making sense of censored covariates: Statistical methods for studies of Huntington's disease. pp. 1-25.
- 39. Grosser, K.F., Lotspeich, S.C., and Garcia, T.P. Mission Imputable: Correcting for Berkson Error When Imputing a Censored Covariate. pp. 1-25.
- 38. 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.
- 37. 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.

- 36. Loop, M.S., <u>Lotspeich</u>, 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.
- 35. 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.
- 34. 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.
- 33. 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.
- 32. 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

- 31. <u>Kim, R.</u>, Pourahmadi, M., and **Garcia, T.P.** A positive definite thresholding estimator of a covariance matrix and its asymptotic efficiency. *Journal of Multivariate Statistics*, in press, pp. 1-15.
- 30. 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. 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.
- 29. 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.
- 28. 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.

- 27. 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.
- 26. <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
- 25. <u>Kim, R., Müller, S., and Garcia, T.P.</u> (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.
- 24. 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.
- 23. <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.
- 22. **Garcia, T.P.** and Parast, L. (2020). Dynamic landmark prediction for mixture models. *Biostatistics*, doi:10.1093/biostatistics/kxz052.
- 21. 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.
- 20. 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.
- 19. **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.
- 18. 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.
- 17. 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.
- 16. **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.
- 15. 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.
- 14. **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.
- 13. **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.

- 12. 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.
- 11. **Garcia**, **T.P.** and Ma, Y. (2015). Optimal estimator for logistic model with distribution-free random intercept. *Scandinavian Journal of Statistics*, **43**, 156-171.
- 10. 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.
- 9. 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.
- 8. 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.
- 7. **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.
- 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.
- 5. Garcia, T.P., Kohli, P., Pourahmadi, M. (2012). Regressograms and mean-covariance models for incomplete longitudinal data. *The American Statistician*, **66**, 85-91.
- 4. 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.
- 3. 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.
- 2. 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.
- 1. **Garcia, T.**, Braun, J., Bryce, R., and Tymstra C. (2008). Smoothing and bootstrapping the PROMETHEUS fire growth model. *Environmetrics*, **19**, 1-13.

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
students)

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) Instructor, Biostatistics II In-Person (Spring Semester, 45-52 students) Instructor, Statistics II, College of Medicine (one day course, ≈ 50 students) University of Neuchâtel, Neuchâtel, Switzerland Teaching Assistant, Calculus and Linear Models, Course taught in French (≈ 60 students) Teaching Assistant, Linear Models, Graduate Level (≈ 15 students) Teaching Assistant, Econometrics (≈ 50 students) University of Western Ontario, London, ON, Canada Teaching Assistant, Operations Research (≈ 30 students) Teaching Assistant*, Applied Probability (≈ 50 students) *Awarded Teaching Assistant of the Year in the Sciences University of California, Irvine, Irvine, CA Teaching Assistant, Statistics, Summer Bridge (≈ 20 students)	2014-2018 2013-2015 2013 Spring 2007, 2008 Fall 2007 Fall 2006 Spring 2006 Fall 2005
Tutor, Mathematics, Learning and Academic Resource Center (\approx 8 stu-	09/2001-06/2003
dents)	
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-VANCE Early Career Faculty Mentor)	2019-2020
Postdoctoral Fellows Supervised	
Sarah Lotspeich, Department of Biostatistics, UNC Chapel Hill Next position: Assistant Professor at Wake Forest University	2021-2022
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	2022-Present
Benjamin Bodek, Department of Biostatistics, UNC Chapel Hill	2022-Present
Jesús Vazquez, Department of Biostatistics, UNC Chapel Hill	2021-Present
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.	
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	
Next position: Assistant Professor at Baylor University.	

Alice Yu, Department of Biostatistics, UNC Chapel Hill Weixi Zhu, Department of Statistics, Texas A&M University Sage Lane, Department of Epidemiology and Biostatistics, Texas A&M School of Public Health Undergraduate Students Supervised Chen Lin, Visiting Undergraduate Scholar from Fudan University Timothy Gibson, Department of Statistics, The University of Sydney Service on Doctoral and Master of Science 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) Shubhangi Vasudeo (Chair: Eva Shipp) Master of Science Committees Master of Science Committees Master of Science Committees Master of Science Committees	Satwik Acharyya, Department of Statistics, Texas A&M University	Fall 2015
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 2019-2020 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 2006-2017 Doctoral Student Committees 2007-2023 UNC Chapel Hill 2008-2023 Department of Biostatistics 4 Haotian Zou (Chair: Danyu Lin) 2022-2023 Richard Sizelove (Chair: Danyu Lin) 2022-2023 Richard Sizelove (Chair: Danyu Lin) 2022-2023 Yifei Lu (Chair: Priya Palta) 2022-2023 Yifei Lu (Chair: Priya Palta) 2022-2023 Yitian Zhang (Chair: Julie Daniels) 2021-2022 Texas A&M University 2019 Department of Statistics 2019 Eli Kravitz (Chair: Raymond J. Carroll) 2019 Shubangi Vasudco (Chair: Hongwei Zhao) 2019-2021 Shubhangi Vasudco (Chair: Eva Shipp) 2017-2022 <	Master of Science Students Supervised	
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Carroll Patton 2019	·	
Michelle Perez 2019	·	2019
	Michelle Perez	2019
Christopher Phelan 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

Active 18. Principal Investigator, NIH NINDS R01NS131225	04/2023-03/2028
"Developing a robust and efficient strategy for censored covariates to improve clinical trial design for neurodegenerative diseases"	04/2029 09/2020
17. Co-Investigator , 5T32ES007018 "Biostatistics for Research in Environmental Health," PI: Fry.	06/2021-05/2026
16. Co-Investigator , R21EB032059 "Data-driven Modeling and Ultrasound-based Control of Afferent Nerve Stimulation for Tremor Suppression," PI: Sharma.	08/2021-04/2024
15. Co-Investigator , 1U01DD001293 "Component A: North Carolina - Advancing Developmental Research using SEED and SEED Follow-up data," PI: Daniels.	07/2021-06/2026
14. Co-Investigator , 132323218 PO S9002633 "Study of Latinos - Investigation of Neurocognitive Aging 2," Study of Latinos, Ancillary study - SOL-INCA2, PI: Gonzalez.	07/2020-03/2025
13. Biostatistician, North Carolina Department of Health and Human Services (NCDHHS) "Expansion in 2022-2023 of NC DHHS/CDC National Wastewater Surveillance System within the UNC System"	06/2022-05/2023
12. Biostatistician , Contract with Northwestern University "Impact of Spiritual Well-being on Huntington Disease Onset"	06/2022-12/2022

Completed

Completed	
11. Principal Investigator, CEHS Pilot Project P30ES010126	03/2022-02/2023
"Creating robust disease trajectories to test when environmental fac-	
tors 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 "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	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

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 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, TX	06/2012
Inv	rited Conference or Symposia Speaker	
50.	Eastern North American Region Annual Meeting, Nashville, TN	03/2023
	Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers, Oaxaca, Mexico	08/2022
48.	Joint Statistical Meeting, Washington, D.C.	08/2022
	Diversity Workshop and Mentoring Program, "Grappling with and Overcoming Isolation," Joint Statistics Meeting, Washington, D.C.	08/2022

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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	12/2021
	Methodological Statistics, Statistics in Neuroscience, London, England	,
41	Honorarium Speaker, Girls Talk Math, Chapel Hill, NC	07/2021
	International Chinese Statistics Association Applied Statistics Symposium,	05/2020
	Houston, TX (cancelled due to COVID-19)	,
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,	11/2019
	College Station, TX	
37	Inaugural Speaker, Bioinformatics Research & Application Symposium,	10/2019
51.	Texas A&M University, College Station, TX	10/2019
36	International Conference on Econometrics and Statistics, Taichung, Taiwan	06/2019
	Plenary Speaker, International Symposium on Forecasting, Thessaloniki,	06/2019
э э.	Greece Greece, international Symposium on Forecasting, Thessalomki,	00/2019
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 Method-	12/2017
	ological Statistics, University of London, UK	,
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
	Huntington's Disease Society of America Annual Convention, Schaumberg, IL	06/2017
	International Conference on Econometrics and Statistics, Hong Kong Univer-	06/2017
	sity of Science and Technology, Hong Kong	33/ = 3 = 3
25.	Lifetime Data Science Conference, Storrs, CT	05/2017
	Huntington Study Group Annual Clinical Research Symposium, Nashville, TN	11/2016
	Newest Developments and Urgent Issues in Measurement Error and Latent	08/2016
	Variable Problems, Banff, Alberta, Canada	·
	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
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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, $\overline{\rm MN}$	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
Co-Chair, Eastern Northern American Region/International Biometric Society Regional Advisory Board	2020-2021
Member, Eastern Northern American Region/International Biometric Society	2019-2021

2020-2021

Regional Advisory Board

Mentor, Joint Statistical Meeting Diversity Mentoring Program

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	
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, Australian & New Zealand Journal of Statistics	2021-Present
Associate Editor, Biostatistics	2019-Present
Journal Referee	2013-Present
Annals of Statistics	
Australia New Zealand Journal of Statistics	
Bioinformatics	
Biometrics	

BMC Bioninformatics

BMC Medical Research Methodology

The Canadian Journal of Statistics

Computational Statistics and Data Analysis

Hacettepe Journal of Mathematics and Statistics

Journal of the American Statistical Association

Journal of Multivariate Analysis

PLOS One

Science Reports

Statistica Sinica

Statistics

Statistics and Probability Letters

Statistics in Medicine

The American Statistician

The Canadian Journal of Statistics

Transportation Research Part A: Policy and Practice

Conference and 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 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

UNC Chapel Hill	
Reviewer for Gillings Study Section	2023
Member, Selection committee for the 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 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 Commitee	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	
Tyson Academic Leadership Program, UNC Chapel Hill	2023-2024
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
SciFoundry Leadership Program, SciFoundry, LLC	2020-2022

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: April 2, 2023