Tanya P. Garcia

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Education

Ph.D., Statistics, Texas A&M University, College Station, TX   08/2011
Dissertation: Efficient semiparametric estimators for biological, genetic, and measurement error applications.

M.Sc., Statistics, University of Western Ontario, London, ON, Canada   08/2006
Thesis: Improving the PROMETHEUS model through parameter smoothing.

M.S., Industrial Engineering and Operations Research, University of California, Berkeley, Berkeley, CA   05/2005

B.S., Mathematics, University of California, Irvine, Irvine, CA   06/2003

Professional Experience

Associate Professor of Biostatistics (Tenured), Gillings School of Global Public Health, The University of North Carolina at Chapel Hill   07/2020-Present

Affiliate of the Carolina Center for Population Aging and Health (CCPAH), The University of North Carolina at Chapel Hill   04/2021-Present

Associate Professor of Statistics (Tenured), Texas A&M University   09/2018-07/2020

Assistant Professor of Biostatistics, Texas A&M School of Public Health   01/2013- 08/2018

Research Assistant Professor of Statistics, Texas A&M University   07/2011-12/2012

Visiting Scholar, The University of Sydney, Australia   11/2012
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   06/2010-08/2010

Research Assistant, MD Anderson Cancer Center, Houston, TX   07/2008-08/2008

Teaching Assistant, University of Neuchâtel, Neuchâtel, Switzerland   09/2006-06/2008

Teaching Assistant, University of Western Ontario, London, ON, Canada   09/2005-06/2006

Research Assistant, RWTH Institute of Operations Research and Logistics, Aachen, Germany   06/2004-08/2004

Research Assistant, University of California, Irvine, Irvine, CA   09/2002-06/2003

Teaching Assistant, University of California, Irvine, Irvine, CA   09/2001-06/2003

Honors and Awards

25. **Featured in AMSTAT News Hispanic Heritage Month**   2020
24. **Sigma Xi Member**, Texas A&M Chapter   2020
23. **Plenary Speaker at the 39th International Symposium on Forecasting**, Thessaloniki, Greece   2019

22. **Mentoring Institute for Neuroscience Diversity Scholars (MINDS) Fellow**   2017-2018

    NIH NINDS funded program that promotes the advancement of underrepresented independent researchers in neuroscience.

21. **Southeastern Conference (SEC) Travel Grant Program Award, Texas A&M University**[*]   2016-2017

    [*]*Awarded but then unable to be used due to collaborator moving to non-SEC university.*

20. **14th Meeting of New Researchers in Statistics and Probability Travel Award**, University of California, San Diego   2012

    Travel award to attend workshop which promotes interaction and networking among new researchers in statistics and probability.

19. **SACNAS National Conference Travel Award**, Seattle, WA   2012

18. **Roadmap for a Successful Academic Career Workshop Travel Award**, 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** ($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. **Emerging Researchers National Conference in Science, Technology, Engineering and Mathematics Travel Award**   2011

    Awarded to 100 applicants.

14. **William S. Connor Award**, 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. **Building Future Faculty Travel Award**, North Carolina State University   2010

    Awarded to 12 out of 100 applicants from graduate programs throughout the US.

12. **Negotiating the Ideal Faculty Position Travel Award**, Rice University   2010

    Awarded to 65 out of 1100 applicants from graduate programs throughout the US.

11. **Ford Foundation Predoctoral Fellowship Honorable Mention**   2010

10. **Teaching Assistant of the Year in the Sciences**, University of Western Ontario   2006

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

8. **Mathematics Departmental Service/Undergraduate Service Award**, University of California, Irvine — 2003
7. **Outstanding Senior in Mathematics**, 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**, University of California, Irvine — 2000-2002
3. **The National Dean's List**, University of California, Irvine — 2000-2003
2. **National Society of Collegiate Scholars**, University of California, Irvine — 2001
1. **National Hispanic Scholar Finalist**, University of California, Irvine — 2000

Professional Memberships

American Statistical Association
ENAR
Huntington Study Group
Institute of Mathematical Statistics
National Society of Collegiate Scholars
Phi Beta Kappa
Phi Kappa Phi
Society for Neuroscience

Research Interests

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

Books and Chapters

28. 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.
27. **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 is a student or postdoctoral researcher.

Under Review

26. <u>Kim, R.</u>, Pourahmadi, M., and **Garcia, T.P.** (2021^{+}). A positive definite thresholding estimator of a covariance matrix and its asymptotic efficiency. pp. 1-15.

Published/In Press

25. <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*, in press. pp. 1-25.

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*, in press. pp. 1-25.

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. <u>Lee, U.</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., <u>Vasudeo, S.</u>, 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. <u>Wei, Y.</u>, Ma, Y., **Garcia, T.P.** and Sinha, S. (2019). Consistent estimator for logistic mixed effect models. *The Canadian Journal of Statistics*, **47**, 140-156. doi:10.1002/cjs.11482.

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.

6. 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.

Courses Taught

Texas A&M University, College Station, TX

Instructor, Statistical Methods (Spring Semester, 91-100 students)	2020
Instructor, Statistical Methods (Spring Semester, 91-100 students)	2019

Texas A&M Health Science Center, College Station, TX

Instructor, Biostatistics II Online (Spring Semester, 9-32 students)	2014-2018
Instructor, Biostatistics II In-Person (Spring Semester, 45-52 students)	2013-2015
Instructor, Statistics II, College of Medicine (one day course, $\approx$ 50 students)	01/2013

University of Neuchâtel, Neuchâtel, Switzerland

Teaching Assistant, Calculus and Linear Models (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

University of Western Ontario, 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	

University of California, Irvine, Irvine, CA

Teaching Assistant, Statistics, Summer Bridge ($\approx$ 20 students)	Summer 2002
Tutor, Mathematics, Learning and Academic Resource Center ($\approx$ 8 students)	09/2001-06/2003

Advising and Formal Mentoring

Postdoctoral Fellows Supervised

Sarah Lotspeich, Postdoctoral Associate of T32, University of North Carolina Chapel Hill, Gillings School of Publich Health, Department of Biostatistics	06/2021-
Unkyung Lee, Postdoctoral Associate of DHHS-NIH National Cancer Institute T32, Texas A&M University, Department of Statistics	06/2017-09/2020

Doctoral Students Supervised

Helal M. El Zaatari, UNC Chapel Hill, Department of Biotatistics	03/2021-
Co-Supervised with Michael Kosorok.	
Marissa Ashner, UNC Chapel Hill, Department of Biotatistics	08/2020-
Kyle Grosser, UNC Chapel Hill, Department of Biotatistics	08/2020-
Rakheon Kim, Texas A&M University, Department of Statistics	05/2018-
Co-Supervised with Mohsen Pourahmadi.	
Satwik Acharyya, Texas A&M University, Department of Statistics	Fall 2015

Master of Science Supervised

Weixi Zhu, MS, Texas A&M University, Department of Statistics	2018-2019
Timothy Gibson, Honours (equivalent of Undergraduate Senior Diploma), The University of Sydney, Department of Statistics	2016-2017
Sage Lane, MPH, Texas A&M Health Science Center, Department of Epidemiology and Biostatistics	Summer 2014

Undergraduate Students Supervised

Chen Lin, BS, Visiting Undergraduate Scholar from Fudan University	07/2019-05/2020

Service on Doctoral and Master of Science Committees

Doctoral Student Committees

UNC Chapel Hill

Department of Epidemiology

Yitian Zhang (Chair: Julie Daniels)	2021-

Texas A&M University

<u>Department of Statistics</u>

Eli Kravitz (Chair: Raymond J. Carroll)	2019
Shuai Chen (Chair: Hongwei Zhao and Lan Zhou)	2015

<u>Department of Mathematics</u>

Lauren Snider	2019-

<u>Department of Epidemiology and Biostatistics</u>

Xiaohuan Zhu (Chair: Hongwei Zhao)	2019-
Shubhangi Vasudeo (Chair: Eva Shipp)	2017-

Grants and Fellowships

Active

11. **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.

10. **Biostatistician**, UL1 TR002489 — 07/2020-02/2023
    "North Carolina Translational and Clinical Science Institute (NC TraCS) - Biostatistics, Epidemiology, and Research Design (BERD)," PI: Buse.

9. **Principal Investigator**, NIH NINDS, K01NS099343, $557,406 total — 12/2016-12/2021
    "Innovative statistical models for development of first Huntington's disease progression risk assessment tool."

Completed

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

Conferences and Symposia

Invited Presentations

62. 14th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2021), Statistics in Neuroscience, London, England   12/2021

61. UFPE: Universidade Federal de Pernambuco (UFPE) Brasil, Department of Statistics   07/2021

60. Girls Talk Math Invited Honorarium Speaker   07/2021

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

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

57. Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers, Oaxaca, Mexico (cancelled due to COVID-19)   08/2020

56. 5th International Society for Non-Parametric Statistics (ISNPS) Meeting, Paphos, Cyprus (cancelled due to COVID-19)   06/2020

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

54. Texas A&M University, Louis Stokes Alliance for Minority Participation Seminar Speaker, College Station, TX   03/2020

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

52. **Inaugural Speaker** at the Bioinformatics Research & Application Symposium, Texas A&M University, College Station, TX   10/2019

51. University of North Carolina at Chapel Hill, Department of Biostatistics, Chapel Hill, NC   09/2019

50. 3rd International Conference on Econometrics and Statistics, Taichung, Taiwan   06/2019

49. **Plenary Speaker** at the 39th International Symposium on Forecasting, Thessaloniki, Greece   06/2019

48. 2019 Eastern North American Region (ENAR) Annual Meeting, Philadelphia, PA   03/2019

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

46. 2018 Joint Statistical Meeting, Vancouver, Canada   08/2018

45. International Society for Non-Parametric Statistics (ISNPS) Meeting, Salerno, Italy   06/2018

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

43. 10th International Conference of the ERCIM WG on Computational and Methodological Statistics, University of London, UK   12/2017

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

41. 2017 Joint Statistical Meeting, Baltimore, MD   08/2017

40. 32nd Annual Huntington's Disease Society of America Annual Convention, Schaumberg, IL   06/2017

39. International Conference on Econometrics and Statistics, Hong Kong University of Science and Technology, Hong Kong   06/2017

38. 2017 Conference on Lifetime Data Science, Storrs, CT   05/2017

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

36. Huntington Study Group, 10th Annual HD Clinical Research Symposium, Nashville, TN   11/2016

35. Newest Developments and Urgent Issues in Measurement Error and Latent Variable Problems, Banff, Canada   08/2016

34. 2016 International Biometrics Conference, Victoria, Canada   07/2016

33. 2016 Eastern North American Region (ENAR) Annual Meeting, Austin, TX   03/2016

32. 2015 Joint Statistical Meeting, Seattle, WA   08/2015

31. International Society for Non-Parametric Statistics (ISNPS) Meeting, Biosciences, Medicine, and Novel Non-Parametric Methods, Graz, Austria   07/2015

30. International Chinese Statistical Association Applied Symposium, Fort Collins, CO   06/2015

29. University of California, Riverside, Riverside, CA   06/2015

28. University of North Carolina, Department of Biostatistics, Chapel Hill, NC   04/2015

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

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

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

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

23. RAND Corporation, Santa Monica, CA   11/2014

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

21. 2014 Joint Statistical Meeting, Boston, MA   08/2014

20. Australian Statistical Conference/Institute of Mathematical Statistics Annual Meeting, Australian Technology Park Sydney, Australia   07/2014

19. The Ninth International Chinese Statistical Association (ICSA) International Conference: Challenges of Statistical Methods for Interdisciplinary Research and Big Data, Hong Kong Baptist University, Hong Kong   12/2013

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

17. 2013 Joint Statistical Meeting, Montréal, Québec, Canada   08/2013

16. Western North American Region (WNAR) Conference, Los Angeles, CA   06/2013

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

14. The Australian National University, Mathematical Sciences Institute, Canberra, New South Whales, Australia   11/2012

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

12. The University of Sydney, School of Mathematics and Statistics, Sydney, New South Whales, Australia   11/2012

11. International Chinese Statistical Association (ICSA) Applied Symposium, Boston, MA   06/2012

10. 8th Annual Texas A&M University System (TAMUS) Louis Stokes Alliance for Minority Participation (LSAMP) Symposium, Corpus Christi, TX   02/2012

9. Statistical Inverse Problems Workshop, College Station, TX   05/2012

Contributed Presentations

8. Huntington Study Group, 9th Annual HD Clinical Research Symposium, Tampa Bay, Fl   10/2015

7. Huntington Study Group, 8th Annual HD Clinical Research Symposium, Minneapolis, MN   11/2014

6. Western North American Region Conference, Honolulu, HI   06/2014

5. University of Florida Winter Workshop: Dimension Reduction and High Dimensional Inference, Gainesville, Fl   01/2014

4. Huntington Study Group, 7th Annual HD Clinical Research Symposium, Charlotte, NC   11/2013

3. Eastern Northern American Region (ENAR) 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

Master of Science Committees

Texas A&M University

Department of Statistics

Leo Lazcano	2019
Vanessa McMahan	2019
Genti Ndrevataj	2019
Timothy Parker	2019
Carroll Patton	2019
Michelle Perez	2019
Christopher Phelan	2019
Weixi Zhu	2019

Department of Epidemiology and Biostatistics

Karen Fischer	2016
Timothy Erickson	2015
John Coppin	2014

Service to the Profession

Professional Organizations

Eastern Northern American Region/International Biometric Society (ENAR) Regional Advisory Board (RAB) Chair	2021-2023
Eastern Northern American Region/International Biometric Society (ENAR) Regional Advisory Board (RAB) Co-Chair	2020-2021
Mentor for Joint Statistical Meeting Diversity Mentoring Program	2020-2021
Eastern Northern American Region/International Biometric Society (ENAR) Diversity Workshop Panelist	2020
Eastern Northern American Region/International Biometric Society (ENAR) Regional Advisory Board Member (RAB)	2019-2021
International Symposium on Forecasting Early Career Researcher Mentor	06/2019
American Statistical Association Biometrics Section Strategic Initiative Chair, "Developing the next Generation of Biostatisticians"	2018-
Biometrics Eastern Northern American Region/International Biometric Society (ENAR) Program Representative, Atlanta, GA	2017-2018
American Statistical Association Biometrics Section Strategic Initiative Co-Chair, "Developing the next Generation of Biostatisticians"	2016-2018
Student Paper Competition Judge, Western Northern American Region/Institute of Mathematical Sciences, Boise, ID	06/2015

Scientific Review Groups and Expert Panels

Huntington Disease Society of America Scientific Advisory Board Member	2020-Present
UK Medical Research Council Grant Reviewer	2020
National Institutes of Health (NIH) Musculoskeletal Rehabilitation Sciences Study (MRS) Section Panel Member	2020
National Science Foundation CAREER Panel Member	2019
National Science Foundation Statistics Panel Member	2019
Natural Sciences and Engineering Research Council of Canada (NSERC) Mathematics and Statistics Discovery Program	2018
E-Rare Transnational research projects on hypothesis-driven use of multi-omic integrated approaches for discovery of diseases causes and/or functional validation in the context of rare diseases	2018

Editorial Service

Associate Editor of *Australian & New Zealand Journal of Statistics*	04/2021-
Associate Editor of *Biostatistics*	01/2019-
Journal Referee	01/2013-
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

External Reviewer

Tenure and Promotion Referee, The University of Sydney	04/2019
Tenure and Promotion Referee, Le Moyne College	04/2016
Doctoral dissertation of Jinqing Li, Macquarie University, Statistics Department, Australia	2014

Conference and Symposia Organization

Co-Organizer, StatFest 2020, Indianapolis, IN	09/2020
Invited Session Organizer,"New directions for nonparametric methods in data science," International Society for Non-Parametric Statistics (ISNPS), Salerno, Italy	06/2018
Invited Session Organizer, "Rich data visualizations for informative health care decisions," Eastern Northern American Region/International Biometric Society (ENAR), Atlanta, GA	03/2018
Invited Session Organizer, "Dynamic modeling for timely health care decisions," Joint Statistical Meeting (JSM), Baltimore, MD	07/2017
Invited Session Organizer,"Innovative Techniques Towards More Precise Modeling," 61st Brazilian Regional Meeting, Salvador, Brazil*	05/2016
Cancelled due to Zika virus.	
Invited Session Organizer, "Innovative Techniques Towards Solving the Complexities of Biomarker Discovery," 2016 ENAR, Austin, TX	03/2016
Invited Session Organizer, "Navigating Your Career for Success at the NSF Career Award," 2015 SACNAS National Conference, National Harbor, MD	10/2015

| Eastern Northern American Region/International Biometric Society (ENAR) Junior Researchers Workshop Co-Organizer, Miami, FL | 03/2015 |
| 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 | 06/2015 |

Service to UNC Chapel Hill

| Neuroscience Executive Advisory Board Member | 2021- |
| Girls Talk Math Invited Honorarium Speaker | 07/2021 |

Service to Biostatistics Department at UNC Chapel Hill

Search Committee Member for Director of Collaborative Studies Coordinating Center (CSCC)	2021-
Neuroscience Executive Advisory Board Member	2021-
Professional development mentor for doctoral candidates	2020-
Seminar Organizer Co-Chair	2020-
Awards Committee Member	2020-

Service to Texas A&M University

ADVANCE Early Career Faculty Mentor Irina Bobkova, Department of Mathematics, Texas A&M University	12/2019-
Panel Speaker, The Texas A&M System AGEP Alliance "The next steps after the post-doc: The do's and must do's"	11/2019
Research Committee Member, Texas A&M School of Public Health	09/2013-07/2018
Panel Speaker, "Why I Chose the Post-Doc Route," Alliance for Graduate Education and the Professoriate (TAMUS AGEP) Program	11/2017
Association of Former Students' College-Level Teaching Awards Committee Reviewer	06/2010-05/2011
Panel Speaker, Advice on Graduate School Admittance, 5th Annual TAMUS LSAMP Symposium	02/2009

Service to Statistics Department at Texas A&M University

Faculty Advisory Committee Member	2019-2020
MS Program Commitee Member (including online MS)	2018-2020
"Statistical Significance Workshop", Co-Organizer at Texas A&M University	2019
Undergraduate Commitee Member (including online MS)	2018-2019

Service to Biostatistics and Epidemiology Department at Texas A&M University

| Admissions Committee | 01/2013-08/2018 |
| Student Research Poster Competition Judge at Public Health Week | 2014-2018 |

Department of Epidemiology and Biostatistics, Texas A&M School of Public Health Seminar Organizer	2013-2018
"Measurement Error and Complex Data Workshop" Co-Organizer Texas A&M University, College Station, TX	04/2016
Faculty Search Committee	2014-2015

Professional Development

Heroic Public Speaking, Core and Grad, Amy and Michael Port	2021
Grant Foundry Coach Training Program, Marketing Your Science, LLC	2021
SciFoundry Leadership Program, Marketing Your Science, LLC	2020-2022
Team Leadership In Research, Stefanie Robel Consulting, LLC	2020-2022
Research Success Alliance, Marketing Your Science, LLC	2018-2022
Grant Foundry, Marketing Your Science, LLC	2018-2019
Faculty Success Program, National Center for Faculty Development and Diversity, LLC	2016-2019

Skills

C++, Fortran 77/90, LaTeX, Linux, MATLAB, R, Ruby, Stata.

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