Tianying Wang

Assistant Professor, Department of Statistics, Colorado State University
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Education

Aug 2018 **PhD in Statistics**, Texas A&M University, College Station, Texas. Advisors: Raymond J. Carroll and Irina Gaynanova.

June 2014 **BS in Statistics**, Renmin University of China, Beijing, China.

Academic Appointments

Aug 2023-present **Assistant Professor**, Department of Statistics, Colorado State University, Fort Collins, Colorado.

Sept 2020-July 2023 **Assistant Professor**, Center for Statistical Science, Tsinghua University, Beijing, China.

Sept 2018-Sept 2020 **Postdoctoral Fellow**, Department of Biostatistics, Columbia University, New York, New York. Postdoctoral mentors: Ying Wei and Iuliana Ionita-Laza.

Affiliations and Courtesy Appointments

Aug 2025-present **Adjoint Assistant Professor**, Department of Biostatistics and Informatics, Colorado School of Public Health, Aurora, Colorado.

May 2024-July 2025 **Adjunct Assistant Professor**, Department of Biostatistics and Informatics, Colorado School of Public Health, Aurora, Colorado.

Apr 2024-present **Faculty Affiliate**, Data Science Research Institute, Colorado State University.

Research Interests

- **Statistical genetics and functional genomics**: distribution-sensitive association analysis, biobank-scale inference, and brain aging and Alzheimer's disease; genomic AI and foundation models.
- **Statistical learning and data integration**: transfer learning, measurement error, missing covariates, population heterogeneity, and uncertainty quantification; synthetic genotype data.

Selected External Funding

Sept 2026-May 2031 **National Institutes of Health/National Institute on Aging, R01**. **Sole PI**. Award 1R01AG102573. *Uncovering Nonlinear Genetic Architectures in Alzheimer's Disease Cellular Pathogenesis*. Anticipated total costs across five budget periods: $3,977,203.

Jan 2022-July 2023 **National Natural Science Foundation of China, Young Scientists Fund**. **Sole PI**. Project 12101351. *Integrated Quantile Regression Models for High-Dimensional Heterogeneous Data: Statistical Inference Theory and Applications in Genetics*. Award amount: CNY 300,000.

Peer-Reviewed Journal Articles

Underlining identifies current or former research mentees. A dagger (†) marks work initiated during undergraduate mentoring. A double dagger (‡) denotes joint first authors. An asterisk (*) denotes a corresponding author.

1. Zhao, H. and **Wang, T.*** (2026). "Augmented transfer regression learning for completely missing covariates." *Journal of the Royal Statistical Society: Series B* (*Statistical Methodology*), published online October 7, 2026, 1-18. doi:10.1093/jrsssb/qkag131.
   - Listed in the "Most read" section of JRSSB's High Impact Research Collection (as of November 2026).
   - First author Huali Zhao received the 2025 IMS Hannan Graduate Student Travel Award based on this work.
2. Liu, Y. and **Wang, T.*** (2026). "A powerful transformation of quantitative responses for biobank-scale association studies." *Journal of the American Statistical Association*, 121(553), 678-689. doi:10.1080/01621459.2025.2540083.
3. Wang, Y. and **Wang, T.*** (2026). "Multi-group quadratic discriminant analysis via projection." *Journal of Computational and Graphical Statistics*, 35(4), 1925-1935. doi:10.1080/10618600.2026.2653763.
4. Zhao, H. and **Wang, T.*** (2026). "Doubly robust transfer learning under sub-group shift for cohort-level missing indicator covariates." *Statistica Sinica*, accepted. doi:10.5705/ss.202025.0245.

5. Zhao, H. and **Wang, T.*** (2026). "Simulation-free extrapolation for misspecified models induced by categorizing an error-prone continuous covariate." *Statistical Science*, accepted. arXiv:2509.06118.
6. Wang, Z.† and **Wang, T.*** (2026). "A semiparametric quantile single-index model for zero-inflated outcomes." *Statistica Sinica*, 36(4), 2003-2024. doi:10.5705/ss.202024.0104.
   - Recognized as a Top Ten Paper at the 10th National Graduate Student Statistics Forum, China (2024).
7. Wang, F., Wang, C., **Wang, T.**, Masala, M., Fiorillo, E., Devoto, M., Cucca, F., and Ionita-Laza, I. (2025). "Computationally efficient whole-genome quantile regression at biobank scale." *Proceedings of the National Academy of Sciences of the United States of America*, 122(50), e2513007122. doi:10.1073/pnas.2513007122.
8. Mao, Y., Jiang, Z., **Wang, T.**, Hu, Y., and Zhan, X. (2025). "TCVS: Tree-guided compositional variable selection analysis of microbiome data." *Bioinformatics*, 41(11), btaf617. doi:10.1093/bioinformatics/btaf617.
9. Luo, Q.†‡, Yu, Y.†‡, and **Wang, T.*** (2025). "Denoising single-cell RNA-seq data with a deep learning-embedded statistical framework." *BMC Bioinformatics*, 26, 282. doi:10.1186/s12859-025-06296-w.
10. **Wang, T.***, Ionita-Laza, I., and Wei, Y. (2025). "A unified quantile framework for nonlinear heterogeneous transcriptome-wide associations." *The Annals of Applied Statistics*, 19(2), 967-985. doi:10.1214/24-AOAS1999.
11. Wang, Z.†, Ling, W., and **Wang, T.*** (2025). "A semiparametric quantile regression rank score test for zero-inflated data." *Biometrics*, 81(2), ujaf050. doi:10.1093/biomtc/ujaf050.
12. **Wang, T.**, Liu, J., and Wu, A. (2025). "Bibliographical connections for semiparametric analysis in case-control studies on gene-environment interactions." *Journal of Data Science*, 23(3), 454-469. doi:10.6339/24-JDS1155.
13. **Wang, T.***, Zhang, W., and Wei, Y. (2025). "ZIKQ: An innovative centile chart method for utilizing natural history data in rare disease clinical development." *Statistica Sinica*, 35, 2451-2468. doi:10.5705/ss.202023.0107.
14. Li, Y., **Wang, T.***, Yan, J., and Zhang, X. (2025). "Improved optimal fingerprinting based on estimating equations reaffirms anthropogenic effect on global warming." *Journal of Climate*, 38(8), 1779-1790. doi:10.1175/JCLI-D-24-0193.1.
15. Zhao, H. and **Wang, T.*** (2024). "Debiased high-dimensional regression calibration for errors-in-variables log-contrast models." *Biometrics*, 80(4), ujae153. doi:10.1093/biomtc/ujae153.
16. Wang, C., **Wang, T.**, Kiryluk, K., Wei, Y., Aschard, H., and Ionita-Laza, I. (2024). "Genome-wide discovery for biomarkers using quantile regression at biobank scale." *Nature Communications*, 15, 6460. doi:10.1038/s41467-024-50726-x.
17. Lau, Y., **Wang, T.***, Yan, J., and Zhang, X. (2023). "Extreme value modeling with errors-in-variables in detection and attribution of changes in climate extremes." *Statistics and Computing*, 33, 125. doi:10.1007/s11222-023-10290-8.
18. Ma, S., **Wang, T.***, Yan, J., and Zhang, X. (2023). "Optimal fingerprinting with estimating equations." *Journal of Climate*, 36(20), 7109-7122. doi:10.1175/JCLI-D-22-0681.1.
19. Ma, S. and **Wang, T.*** (2023). "The optimal pre-post allocation for randomized clinical trials." *BMC Medical Research Methodology*, 23, 72. doi:10.1186/s12874-023-01893-w.
20. Zhou, S., Pati, D., **Wang, T.**, Yang, Y., and Carroll, R. J. (2023). "Gaussian processes with errors in variables: Theory and computation." *Journal of Machine Learning Research*, 24(87), 1-53. jmlr.org/papers/v24/21-1480.html.
21. Jiang, R.†, Zhan, X.*, and **Wang, T.*** (2023). "A flexible zero-inflated Poisson-Gamma model with application to microbiome sequence count data." *Journal of the American Statistical Association*, 118(542), 792-804. doi:10.1080/01621459.2022.2151447.
22. **Wang, T.***, Ionita-Laza, I., and Wei, Y. (2022). "Integrated quantile rank test (iQRAT) for gene-level associations." *The Annals of Applied Statistics*, 16(3), 1423-1444. doi:10.1214/21-AOAS1548.
23. **Wang, T.**, Ling, W., Plantinga, A., Wu, M., and Zhan, X. (2022). "Testing microbiome association using integrated quantile regression models." *Bioinformatics*, 38(2), 419-425. doi:10.1093/bioinformatics/btab668.
24. Houghton, L. C., Wei, Y., **Wang, T.**, Goldberg, M., Paniagua-Avila, A., Sweeden, R. L., Bradbury, A., Daly, M., Schwartz, L. A., Keegan, T., John, E. M., Knight, J. A., Andrulis, I. L., Buys, S. S., Frost, C. J., O'Toole, K., White, M. L., Chung, W. K., and Terry, M. B. (2022). "Body mass index rebound and pubertal timing in girls with and without a family history of breast cancer: The LEGACY girls study." *International Journal of Epidemiology*, 51(5), 1546-1555. doi:10.1093/ije/dyac021.
25. **Wang, T.*** and Asher, A. (2021). "Improved semiparametric analysis of polygenic gene-environment interactions in case-control studies." *Statistics in Biosciences*, 13, 386-401. doi:10.1007/s12561-020-09298-9.

26. Gaynanova, I. and **Wang, T.** (2019). "Sparse quadratic classification rules via linear dimension reduction." *Journal of Multivariate Analysis*, 169, 278-299. doi:10.1016/j.jmva.2018.09.011.
27. Blas Achic, B. G.‡, **Wang, T.**‡, Su, Y., Kipnis, V., Dodd, K., and Carroll, R. J. (2018). "Categorizing a continuous predictor subject to measurement error." *Electronic Journal of Statistics*, 12, 4032-4056. doi:10.1214/18-EJS1489.
28. Li, H., Staudenmayer, J., **Wang, T.**, Keadle, S. K., and Carroll, R. J. (2018). "Three-part joint modeling methods for complex functional data mixed with zero-and-one-inflated proportions and zero-inflated continuous outcomes with skewness." *Statistics in Medicine*, 37(4), 611-626. doi:10.1002/sim.7534.
29. Johnson, V., Payne, R., **Wang, T.**, Asher, A., and Mandal, S. (2017). "On the reproducibility of psychological science." *Journal of the American Statistical Association*, 112(517), 1-10. doi:10.1080/01621459.2016.1240079.
30. **Wang, T.**, Yang, Y., and Tian, M. (2017). "Tuning parameter selection in adaptive LASSO for quantile regression with panel data." *Journal of Applied Statistics and Management*, 36(3), 429-440. Chinese-language journal.
31. Yin, J., **Wang, T.**, and Wang, W. (2017). "Structure learning and parameter estimation on robust conditional graphical model." *China Science Paper*, 12(17), 1921-1929. Chinese-language journal.

Book Chapter

Wang, T. (2026). "Moving beyond mean: Harnessing big data for health insights by quantile regression." In Y. Zhao and D.-G. Chen, eds., *Big Data Analytics in Biostatistics and Bioinformatics*, ICSA Book Series in Statistics, Springer, 35-74. doi:10.1007/978-3-032-06649-7_3.

Selected Manuscripts Under Review

1. Liu, A.‡, Jiang, R.‡, Li, R., Cao, X., Qi, Z., Feng, R., Sun, H., Fujita, M., Comandante-Lou, N., Lakhani, C. M., Empawi, J., Knowles, D. A., Zhang, X., Dey, K. K., De Jager, P., Bennett, D., the Alzheimer's Disease Functional Genomics Consortium, **Wang, T.***, and Wang, G.* (2026). "Quantile QTL mapping reveals heterogeneous allelic effects in the aging human brain and Alzheimer's disease." doi:10.21203/rs.3.rs-8219833.
2. Li, Z.† and **Wang, T.*** (2026). "Tree-aggregated compositional regression under measurement error." arXiv:2605.15469.
3. **Wang, T.*** (2026). "Geometry of tail allocation in conformal prediction intervals." arXiv:2604.25202.
4. Zhao, H., Liu, M.*, and **Wang, T.*** (2026). "Data fusion for errors-in-variables." arXiv:2610.07048.
5. **Wang, T.***, Ma, Y., and Wei, Y. (2026). "Joint estimation and grouping of quantile association curves across multiple responses." arXiv:2611.02466.
   - First Place, 2025 ARISE (Aging Research - Innovations in Statistical Exploration) Webinar Series, ASA Statistics and Data Science in Aging, for a presentation based on this work.

Selected Honors and Awards

2025	**First Place**, ARISE Webinar Series, ASA Statistics and Data Science in Aging.
2024	**ICORS-DSSV Travel Award**, International Conference on Robust Statistics.
2020	**IMS New Researcher Travel Award**, Institute of Mathematical Statistics.
2020	**Fostering Diversity in Biostatistics Workshop Travel Award**, Eastern North American Region of the International Biometric Society.
2019	**NISS Writing Workshop for Junior Researchers Travel Award**.
2018	**Dr. Joseph Newton Graduate Student Service Award**, Texas A&M University.
2016	**Norbert Hartmann, Jr. Fellowship**, Texas A&M University.

Developed and Maintained Research Software

`MQR`	Quantile regression for time-dependent covariate effects on multiple outcomes.
`optCQR`	Conformalized quantile regression that optimizes interval length while maintaining valid coverage.
`TransMissing`	Transfer learning with covariates that are completely missing from a target cohort.
`DRTL-comb`	Doubly robust transfer learning with missing binary covariates.
`ZIQ-SIR`	Semiparametric quantile rank score testing for zero-inflated data.
`ZIKQ`	Centile chart construction for natural-history data.
`MGQDA`	Multi-group high-dimensional quadratic discriminant analysis.

Developed and Maintained Research Software, continued

`HighCal`	High-dimensional calibration and inference for contaminated covariates.
`ZILLNB`	Zero-inflated negative binomial modeling and deep learning for single-cell data imputation.
`SIMFEX`	Simulation-free extrapolation for measurement error under model misspecification.
`ZIQSI`	Semiparametric quantile single-index modeling for zero-inflated outcomes.
`ZIPG`	Zero-inflated Poisson-Gamma regression for microbiome count data.
`iQRAT`	Integrated quantile rank tests for heterogeneous gene-level associations.
`QTWAS`	Quantile-process methods and interactive resources for nonlinear transcriptome-wide association studies.
`IQKM`	Integrated quantile regression tests for microbiome-outcome associations.
`DAP`	High-dimensional binary classification under unequal covariance matrices.
`CCP`	Estimation and inference for categorizing an error-prone continuous predictor.

Selected Invited Presentations

University and Institutional Seminars

Apr 2026	Department of Statistics, Iowa State University, Ames, Iowa.
Mar 2026	Department of Biostatistics, Epidemiology and Informatics, University of Pennsylvania, Philadelphia, Pennsylvania.
Apr 2025	Department of Applied Mathematics, Illinois Institute of Technology, Chicago, Illinois.
Nov 2024	School of Mathematical and Statistical Sciences, Arizona State University, Tempe, Arizona.
June 2023	Wang Yanan Institute for Studies in Economics and Department of Statistics, Xiamen University, Xiamen, China.
June 2023	School of Medicine, Shanghai Jiao Tong University, Shanghai, China.
June 2023	School of Statistics, East China Normal University, Shanghai, China.
June 2023	School of Management, Fudan University, Shanghai, China.
June 2023	School of Statistics, Southwestern University of Finance and Economics, Chengdu, China.
May 2023	Department of Automation, Tsinghua University, Beijing, China.
Dec 2022	Department of Biostatistics, University of Pittsburgh, Pittsburgh, Pennsylvania.
Sept 2022	Department of Biostatistics, Peking University, Beijing, China.
July 2021	Department of Statistics, Universidade Federal de Pernambuco, Recife, Brazil.
Oct 2020	School of Statistics, Renmin University of China, Beijing, China.
Jan 2020	Department of Statistics, Pennsylvania State University, University Park, Pennsylvania.
Jan 2020	Center for Statistical Science, Tsinghua University, Beijing, China.
Oct 2019	The Biostatistics Center, George Washington University, Rockville, Maryland.
Sept 2019	Department of Statistics, University of Connecticut, Storrs, Connecticut.
June 2019	Center for Statistical Science, Tsinghua University, Beijing, China.
May 2019	Institute of Statistics and Big Data, Renmin University of China, Beijing, China.

Conferences, Workshops, and Webinars

Nov 2026	SLDS Conference, New York, New York.
Oct 2026	*Transitioning to Independent Research: Research Directions and Grant Funding as an Early Stage Investigator.* Invited presentation, ADSP Trainee Network Meeting.
Aug 2026	14th International Conference on Intelligent Biology and Medicine, Buffalo, New York.
Aug 2025	ARISE Webinar Series, ASA Statistics and Data Science in Aging.
Aug 2025	8th International Conference on Econometrics and Statistics, presented online.
June 2025	ICSA Applied Statistics Symposium, Storrs, Connecticut.
May 2025	STATGEN, Minneapolis, Minnesota.
Mar 2025	21st Annual Meeting of the MidSouth Computational Biology and Bioinformatics Society, Salt Lake City, Utah.
Dec 2024	18th International Joint Conference CFE-CMStatistics, London, United Kingdom.
Aug 2024	Joint Statistical Meetings, Portland, Oregon.
July 2024	International Conference on Robust Statistics, Fairfax, Virginia.
July 2024	7th International Conference on Econometrics and Statistics, Beijing, China.

July 2024	Joint Conference on Statistics and Data Science in China, Kunming, China.
July 2024	Hangzhou International Conference on Frontiers of Data Science, Hangzhou, China.
July 2024	IMS-China International Conference on Statistics and Probability, Yinchuan, China.
June 2024	ICSA China Conference, Wuhan, China.
June 2024	ICSA Applied Statistics Symposium, Nashville, Tennessee.
June 2024	WNAR/IMS Annual Meeting, Fort Collins, Colorado.
June 2024	6th ICSA-Canada Chapter Symposium, Niagara Falls, Canada.
Jan 2024	Banff International Research Station workshop on Bridging Statistical Strategies for Censored Covariates, Banff, Canada.
Jan 2024	Institute of Mathematical Statistics Asia-Pacific Rim Meeting, Melbourne, Australia.
Dec 2023	17th International Conference of the ERCIM WG on Computational and Methodological Statistics, Berlin, Germany.
Aug 2023	6th International Conference on Econometrics and Statistics, Tokyo, Japan.
July 2023	Joint Conference on Statistics and Data Science in China, Beijing, China.
July 2023	12th ICSA International Conference, Hong Kong, China.
July 2023	ICSA China Conference, Chengdu, China.
Mar 2023	Eastern North American Region Spring Meeting, Nashville, Tennessee.
Dec 2022	16th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, United Kingdom.
July 2022	ICSA China Conference, Xi'an, China.
June 2022	Special Conference Celebrating the 85th Anniversary of Renmin University of China, Beijing, China.
June 2022	5th International Conference on Econometrics and Statistics, Kyoto, Japan.
June 2021	Statistics and Data Science Symposium, Zhejiang University, Hangzhou, China.
Dec 2020	ICSA Applied Statistics Symposium, Houston, Texas.
Nov 2020	Chinese Statistical Association of Young Scholar, Beijing, China.
Nov 2020	Tsinghua Symposium on Statistics and Data Science for Young Scholars, Beijing, China.
Jan 2020	Global Scientist Interdisciplinary Forum, Shenzhen, China.
May 2019	Hangzhou International Conference on Frontiers of Data Science, Hangzhou, China.

Teaching Experience

Colorado State University

2023-2025	**Design and Data Analysis for Researchers I, STAR 511**, primary instructor for four offerings. Typical offerings served approximately 50 to 60 students. The Fall 2024 offering comprised two sections serving approximately 120 students.
Fall 2025; Fall 2026	**Statistical Data Analysis I, STAT 341**, primary instructor for 39 students in Fall 2025 and 84 students in Fall 2026.
Spring 2026	**Data Graphics and Visualization, DSCI 336**, primary instructor for 31 students.

Tsinghua University

Fall 2022	**Advanced Statistical Methods**, instructor for all 64 contact hours in a PhD core course with 16 doctoral students.
Spring 2022	**Advanced Topics in Statistics IV: Statistical Genetics**, co-instructor for 16 of 32 contact hours with 3 doctoral students.
Fall 2021	**High-Dimensional Statistics**, course leader and full-course instructor for 14 doctoral students.
2022-2023	**Introduction to Biostatistics**, instructor for all 32 contact hours in each of two undergraduate offerings, with enrollments of 17 and 27 students.
Spring 2021	**Multivariate Statistical Analysis**, co-instructor for two undergraduate sections enrolling 66 and 64 students, teaching 24 of 48 contact hours in each section.

Texas A&M University

Summer 2016	**Statistical Methods, STAT 303**, primary instructor.

Course Development

Fall 2021 **High-Dimensional Statistics**, Tsinghua University. Designed and taught a new PhD elective as course leader.

Spring 2022 **Advanced Topics in Statistics IV: Statistical Genetics**, Tsinghua University. Co-taught a new PhD elective and developed the assigned modules.

Advising and Mentoring

Doctoral Advising

2023-present **Eva Krastev**, Colorado State University, co-advised with Haonan Wang. Recipient of the **2026 James R. zumBrunnen Statistical Collaboration Award**.

2021-2023 **Yuchao Wang**, Tsinghua University, primary advisor and continuing research collaborator.

2022-2023 **Roulan Jiang**, Tsinghua University, primary advisor and continuing research collaborator.

Visiting Doctoral Researchers

2026 **Roulan Jiang**, Tsinghua University, former doctoral advisee. Faculty host and continuing research mentor for the visiting appointment at Colorado State University.

2025 **Zirui Wang**, Tsinghua University. Faculty host and research mentor for the visiting appointment at Colorado State University. A coauthored paper received **Top Ten Paper recognition at the 10th National Graduate Student Statistics Forum, China**.

2024 **Huali Zhao**, Tsinghua University. Faculty host and research mentor for the visiting appointment at Colorado State University. Recipient of the **2025 IMS Hannan Graduate Student Travel Award**.

2024 **Zhenghan Li**, University of Minnesota, former Tsinghua undergraduate mentee. Faculty host and research mentor for the visiting appointment at Colorado State University.

Undergraduate Research Mentoring

2026-present **Honors Thesis Committee Member**, **Danielle Terry**, Colorado State University.

2024-2026 **Summer Research Mentoring**, Colorado State University. Mentored five undergraduate students. **Mussa Hassen** received the **2025 Undergraduate Excellence in Research Award**.

Fall 2025 **Honors Project Mentoring**, Colorado State University. Mentored **Danielle Terry**, recipient of the **2026 Undergraduate Early Academic Achievement Award**.

2021-2023 **Undergraduate Thesis Advising**. Advised four undergraduate theses: three at Tsinghua University and one at Nankai University.

2021-2023 **Independent-Study Mentoring**. Supervised 15 independent-study projects at Tsinghua University.

Professional Service

Editorial Service

2024-present **Associate Editor**, *Journal of Data Science*.

2022-present **Review Editor**, *Frontiers in Genetics*.

2024 **Guest Editor**, *Journal of Data Science* special issue for the WNAR/IMS/Graybill Annual Meeting.

Grant Review

2026 **Review Panel Member**, NIH GCAT and ASPA Study Sections.

2024 **Review Panel Member**, NSF LEAPS-MPS.

2019 **Grant Reviewer**, University of Tennessee at Chattanooga, Internal Grant Competition at the Center for Excellence in Applied Computational Science & Engineering.

Professional Leadership

2027-2029 **Member**, Council of Sections Fiscal Oversight Committee, American Statistical Association.

2026 **Member**, ASA SLDS Student Paper Competition Committee.

2026-2027 **Member**, Member Engagement Committee, ASA Section on Statistics in Genomics and Genetics.

2026 **Secretary**, ASA Nonparametric Statistics Section.

2026 **Mentor**, ASA MentorLink Pilot Program.
2025 **Treasurer**, ASA Nonparametric Statistics Section.
2024-2028 **Member**, ASA Committee on Career Development.
2023-2024 **Member**, Award Committee, ASA Mental Health Statistics Section.

Research Community Contributions

Nov 2026 **Terminal-Bench-Science**. Statistics task proposal author, "Assessing When Data Fusion Methods Give Valid Regression Estimates for a Target Population." Approved for implementation.

Scientific Program and Conference Organization

May 2027 **Member**, Local Programming Committee; **Institutional Ambassador**, STATGEN Conference, Denver, Colorado.
2026 **Member**, Scientific Committee, ARISE Program, ASA Statistics and Data Science in Aging.
June 2026 **Member**, Scientific Program Committee, ICSA China Conference, Shenzhen, China.
Dec 2023 **Member**, Scientific Program Committee, IEEE International Conference on Bioinformatics and Biomedicine, Istanbul, Turkey.
May 2023 **Organizer**, Peking-Tsinghua Joint Statistical Forum, Beijing, China.
Dec 2022 **Member**, Scientific Program Committee, IEEE International Conference on Bioinformatics and Biomedicine, Las Vegas, Nevada.
Nov 2020 **Organizer**, Tsinghua Symposium on Statistics and Data Science for Young Scholars, Beijing, China.

Invited Session Organization

Aug 2026 Joint Statistical Meetings, Boston, Massachusetts.
June 2026 ICSA China Conference, Shenzhen, China (two invited sessions).
Aug 2025 8th International Conference on Econometrics and Statistics, Tokyo, Japan.
Dec 2024 CMStatistics, London, United Kingdom.
Aug 2024 Joint Statistical Meetings, Portland, Oregon.
July 2024 7th International Conference on Econometrics and Statistics, Beijing, China.
June 2024 ICSA Applied Statistics Symposium, Nashville, Tennessee.
June 2024 WNAR/IMS Annual Meeting, Fort Collins, Colorado.
June 2024 6th ICSA-Canada Chapter Symposium, Niagara Falls, Canada.
May 2024 STATGEN, Pittsburgh, Pennsylvania.
Mar 2023 ENAR Spring Meeting, Nashville, Tennessee.
July 2019 ICSA China Conference, Tianjin, China.

Student Paper and Poster Award Judging

Apr 2025 **Research Poster Judge**, Celebrate Undergraduate Research and Creativity (CURC), CSU.
June 2024 **Student Paper Award Judge**, WNAR/IMS Annual Meeting, Fort Collins, Colorado.
Mar 2023 **Poster Judge**, ENAR Spring Meeting, Nashville, Tennessee.

Journal Refereeing

Journal of the American Statistical Association
The Annals of Applied Statistics
Biometrics
Journal of Machine Learning Research
Journal of Computational and Graphical Statistics
Journal of Multivariate Analysis
Statistica Sinica
Annals of the Institute of Statistical Mathematics
Statistics in Medicine
The Canadian Journal of Statistics
Computational Statistics & Data Analysis
Statistics in Biosciences
Statistics
The American Statistician
Statistics and Computing
Stat
Journal of Nonparametric Statistics
Australian & New Zealand Journal of Statistics
TEST
PLOS Genetics
Proceedings of the National Academy of Sciences
Journal of Climate
NAR Genomics and Bioinformatics
IEEE Transactions on Signal Processing
IEEE Signal Processing Letters
Computational Management Science
Chemometrics and Intelligent Laboratory Systems
Communications Biology

Selected Departmental and University Service

2024-2027	**Member**, Graduate Committee, Department of Statistics, Colorado State University.
2026-2027	**Member**, Graduate Admissions Committee, Department of Statistics, Colorado State University.
2025-2026	**Member**, Department Chair Search Committee, Department of Statistics, Colorado State University.
2024-2026	**Member**, Undergraduate Summer Research Program Committee, Colorado State University.
2023-2025	**Member**, Department Seminar Committee, Colorado State University.
2025-2026	**Member**, Scholarship Committee, College of Natural Sciences, Colorado State University.
2026-present	**Member**, Faculty Committee, Graduate Center for Inclusive Mentoring (GCIM), Colorado State University.
2020-2023	**Member**, Graduate Admissions Committee, Center for Statistical Science, Tsinghua University.
2022-2023	**Member**, PhD Qualification Examination Committee, Center for Statistical Science, Tsinghua University.
2020-2021	**Colloquium Chair**, Center for Statistical Science, Tsinghua University.
2017-2018	**President**, Statistics Graduate Student Association, Texas A&M University.