EMMA JINGFEI ZHANG

CURRICULUM VITAE

January 11, 2026

Address: Information Systems & Operations Management (ISOM)
Goizueta Business School, Emory University
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ACADEMIC POSITIONS

2025 - present	Professor of ISOM, Goizueta Business School, Emory University
2025 - present	Professor of Biostatistics and Bioinformatics (secondary appointment), Rollins School of Public Health, Emory University
2024 - present	Goizueta Foundation Term Chair, Goizueta Business School, Emory University
2023 - 2025	Associate Professor of ISOM, Goizueta Business School, Emory University
2023 - 2025	Associate Professor of Biostatistics and Bioinformatics (secondary appointment), Rollins School of Public Health, Emory University
2020 - 2023	Associate Professor of Management Science, Miami Herbert Business School, University of Miami
2022 - 2023	Associate Professor of Public Health Sciences (secondary appointment), Miller School of Medicine, University of Miami
2014 - 2020	Assistant Professor of Management Science, Miami Herbert Business School, University of Miami

ADIMINISTRATIVE APPOINTMENTS

2025 - present	Area Coordinator, ISOM, Goizueta Business School, Emory University

EDUCATION

2009 - 2014	Ph.D. in Statistics, University of Illinois at Urbana-Champaign Advisor: Prof. Yuguo Chen
2005 - 2009	B.S. in Mathematics, Nankai University, Tianjin, China

RESEARCH INTERESTS

My primary research focuses on the statistical modeling and inference for networks and graphs, tensors, and point processes. The unifying theme of my research is to identify and utilize hidden structures in these complex high-dimensional data and to explore and quantify subject-level heterogeneity through the development of efficient statistical methods and algorithms that can afford quantifiable computational and statistical trade-offs and explicit uncertainty quantifications.

The specific topics I have examined include:

- network community detection, network regression, network latent space models,
- graphical models, sparse covariance estimation, spiked covariance model,
- tensor regressions, tensor clustering, tensor bandits,
- high-dimensional point processes, marked point processes.

These methods have been applied to:

- identify functional groups in social networks, gene networks and brain networks,
- optimize online advertisement placement,
- uncover patterns in social media user interaction and stock trading,
- analyze wearable devices and mobile health data,
- identify imaging biomarkers for neurological disorders and diseases infer context-specific and subject-specific gene regulations from bulk and single cell RNA-seq data.

HONORS AND AWARDS

- American Statistical Association Fellow (2025)
- Jordan Research Excellence Award, *Emory University* (2025)
- MSBA Distinguished Elective Educator Award, *Emory University* (2024)
- Albert E. Levy Award Senior Faculty Nominee, *Emory University* (2023)
- Elected Member, *International Statistical Institute* (2023)
- Emerging Scholar Award, *Miami Herbert Business School* (2020)
- Provost Research Award, *University of Miami* (2016)
- Provost Research Award, *University of Miami* (2015)
- Laha Award, *Institute of Mathematical Statistics* (2013)
- Norton Prize for Outstanding Thesis in Statistics, *University of Illinois* (2013)
- Statistical Computing and Statistical Graphics Student Paper Award, *American Statistical Association* (2012)
- First Prize Chinese Academy of Sciences Scholarship, *Chinese Academy of Sciences* (2008)
- First Prize Samsung Global Scholarship, *Nankai University* (2007)
- First Prize Scholarship, *Nankai University* (2006)

PUBLICATIONS (*: as the corresponding author; †: with student co-authors under supervision)

Technical Reports

40. Zhang, M., Cai, B., Sun, W.W. and Zhang, J.*, "Generalized Tensor Completion with Non-Random Missingness".

39. Wu, M., Shen, J., Zhang, R. and Zhang, J., "Beyond a Single Biomarker: Adaptive Enrichment Design with Data-Driven Subgroup Rules".

38.† Zhang, M., Cai, B., Li, D., Niu, X. and Zhang, J.*, "Preferential Latent Space Models for Networks with Textual Edges".

[*ASA Business and Economics Statistics Student Paper Award*]

37. Wu, Y., Zhang, J.*, Lan, W. and Tsai, C., "An Eigengap Ratio Test for Determining the Number of Communities in Network Data".

36. Chen, Y., Zhang, J. and Zhu, J., "Modeling Non-Uniform Hypergraphs Using Determinantal Point Processes".

35. Liu, X., Hu, F. and Zhang, J.*, "Estimating Treatment and Spillover Effects with the Ego-Cluster Experimental Design".

Published and In Press

34. Hu, J., Zhang, J., Guo, J. and Zhu, J. (2025), "Limiting Laws and Consistent Estimation Criteria for Fixed and Diverging Number of Spiked Eigenvalues", *Journal of the American Statistical Association*, accepted. (joint first author)

33. Meng, X., Zhang, J. and Li, Y. (2025), "Statistical Inference on High Dimensional Gaussian Graphical Regression Models", *Biometrics*, 81(4), ujaf165.

32. Kim, R. and Zhang, J.* (2025), "High-dimensional Covariance Regression with Application to Co-expression QTL Detection", *Journal of the American Statistical Association*, accepted. https://doi.org/10.1080/01621459.2025.2520996.

31. Su, C.*, Lee, D., Jin, P. and Zhang, J.* (2025), "scMultiMap: Cell-type-specific Mapping of Enhancer and Target Genes from Multimodal Single Cell Data", *Nature Communications*, 16, 3941.

30. Cai, B., Zhang, J.* and Sun, W.W. (2025), "Jointly Modeling and Clustering Tensors in High Dimensions", *Operations Research*, 73(3), 1151-1722.

29. Zhang, J.* and Li, Y. (2025), "Multi-task Learning for Gaussian Graphical Regressions with High Dimensional Covariates", *Journal of Computational and Graphical Statistics,* 34(3), 961-970.

28.† Cai, B., Zhang, J.*, Li, H., Su, C. and Zhao, H.* (2024), "Statistical Inference of Cell-type Proportions Estimated from Bulk Expression Data", *Journal of the American Statistical Association*, 119, 2521-2532.

27.† Zhang, M., Cai, B., Dai, W., Kong, D., Zhao, H., Zhang, J.* (2024), "Learning Brain Connectivity in Social Cognition with Dynamic Network Regression", *Annals of Applied Statistics*, 18(4), 405-3424.

26.† Zhou, J., Hao, B., Wen, Z., Zhang, J. and Sun, W.W. (2025), "Stochastic Low-rank Tensor Bandits for Multi-dimensional Online Decision Making", *Journal of the American Statistical Association*, 120(549), 198-211.

25.† Su, C., Zhang, J.* and Zhao, H.* (2024), "Estimating Cell-type-specific Gene Co-expression Networks from Bulk Gene Expression Data with an Application to Alzheimer's disease", *Journal of the American Statistical Association*, 119, 811-824.

24. Xu, G., Zhang, J., Li, Y. and Guan, Y. (2024), "Bias-correction and Test for Mark-point Dependence with Replicated Marked Point Processes", *Journal of the American Statistical Association*, 119, 217-231.

23.† Cai, B., Zhang, J.* and Guan, Y. (2024), "Latent Network Structure Learning from High Dimensional Multivariate Point Processes", *Journal of the American Statistical Association*, 119, 95-108.

22.† Zhang, M., Zhang, J. and Dai, W. (2024), "Fast Community Detection in Dynamic and Heterogeneous Networks", *Journal of Computational and Graphical Statistics,* 2, 487-500.

[*ASA Editors' Choice Collection*]

21. Zhang, J. and Zhao, H. (2023), "eQTL Studies: from Bulk Tissues to Single Cells", *Journal of Genetics and Genomics*, 50, 925-933.

20. Zhang, J.* and Li, Y. (2023), "High Dimensional Gaussian Graphical Regression Models with Covariates", *Journal of the American Statistical Association,* 118, 2088-2100.

19.† Su, C., Xu, Z., Shang, X., Cai, B., Zhao, H.* and Zhang, J.* (2023), "Cell-type-specific Co-expression Inference from Single Cell RNA-sequencing Data", *Nature Communications*, 14(1), 4846.

18. Zhang, J.*, Sun, W.W. and Li, L. (2023), "Generalized Connectivity Matrix Response Regression with Applications in Brain Connectivity Studies", *Journal of Computational and Graphical Statistics*, 32(1), 252-262.

17.† Zhang, J.*, Cai, B., Zhu, X., Wang, H., Xu, G. and Guan, Y. (2023), "Learning Human Activity Patterns using Clustered Point Processes with Active and Inactive States", *Journal of Business and Economic Statistics*, 41(2), 388-398.

16.† Wang, J., Zhang, J., Liu, B., Guo, J. and Zhu, J. (2023), "Fast Network Community Detection with Profile-Pseudo Likelihood Methods", *Journal of the American Statistical Association*, 118(542), 1359-1372. (joint first author)

15.† Zhou, J., Sun, W.W., Zhang, J. and Li, L. (2023), "Partially Observed Dynamic Tensor Response Regression", *Journal of the American Statistical Association*, 118(541), 424-439.

14. Hu, J., Zhang, J., Qin, H., Yan, T., and Zhu, J. (2021), "Using Maximum Entry-Wise Deviation to Test the Goodness-of-Fit for Stochastic Block Models", *Journal of the American Statistical Association*, 116, 1373-1382. (joint first author)

13.† Hao, B., Wang, B., Wang, P., Zhang, J., Yang, J. and Sun, W.W. (2021), "Sparse Tensor Additive Regression", *Journal of Machine Learning Research*, 22(64), 1-43.

12. Zhang, J.*, Sun, W. and Li, L. (2020), "Mixed-Effect Time-Varying Network Model and Application in Brain Connectivity Analysis", *Journal of the American Statistical Association*, 532, 2022-2036.

11. Xu, G., Wang, M., Bian, J., Burch, B., Andrade, S., Huang, H., Zhang, J. and Guan, Y. (2020), "Semi-Parametric Learning of Structured Temporal Point Processes", *Journal of Machine Learning Research,* 21(192), 1−39.

10. Xu, G., Zhao, C., Jalilian, A., Waagepetersen, R., Zhang, J. and Guan, Y. (2020), "Nonparametric Estimation of the Pair Correlation Function of Replicated Inhomogeneous Point Processes", *Electronic Journal of Statistics,* 14, 3730-3765.

9. Zhang, J. and Chen, Y. (2020), "Modularity Based Community Detection in Heterogeneous Networks", *Statistica Sinica*, 30, 601-629.

8. Zhang, J.* and Cao, J. (2017), "Finding Common Modules in a Time-Varying Network with Application to the Drosophila Melanogaster Gene Regulation Network", *Journal of the American Statistical Association,* 112, 994-1008.

7. Deng, C., Guan, Y., Waagepetersen, R. and Zhang, J. (2017), "Second-order Quasi-likelihood for Spatial Point Processes", *Biometrics*, 73, 1311-1320.

6. Zhang, J. and Chen, Y. (2017), "A Hypothesis Testing Framework for Modularity Based Network Community Detection", *Statistica Sinica*, 27, 437-456.

5. Zhang, J. and Chen, Y. (2015), "Monte Carlo Algorithms for Identifying Densely Connected Subgraphs", *Journal of Computational and Graphical Statistics*, 24, 827-845.

4. Zhang, J. and Chen, Y. (2015), "Exponential Random Graph Models for Networks Resilient to Targeted Attacks", *Statistics and Its Interface,* 8, 267-276.

3. Zhang, J. and Chen, Y. (2013), "Sampling for Conditional Inference on Network Data", J*ournal of the American Statistical Association*, 108, 1295-1307.

[*ASA Statistical Computing and Statistical Graphics Student Paper Award*]

2. He, X., Yang, Y. and Zhang, J. (2012), "Bivariate Downscaling with Asynchronous Measurements", *Journal of Agricultural, Biological, and Environmental Statistics*, 17, 476-489.

1. Chon, H., Kraft, S., Zhang, J., Loucks, T. and Ambrose, N. (2013), "Individual Variability in Delayed Auditory Feedback Effects on Speech Fluency and Rate in Normally Fluent Adults", *Journal of Speech Language and Hearing Research*, 56, 489-504.

SOFTWARE

- Sequential importance sampling method for sampling networks [3]
  available at https://github.com/EmmaJingfeiZhang/NetSample
- Monte Carlo algorithms for identifying the densest subgraphs [5]
  available at https://github.com/EmmaJingfeiZhang/MCDense
- Finding and testing common modules in time-varying networks [8]
  available at https://github.com/EmmaJingfeiZhang/DNetModule
- Semiparametric multi-level PCA for temporal point processes [11]
  available at https://github.com/EmmaJingfeiZhang/MFPCA
- Mixed effect time-varying network regression [12]
  available at https://github.com/EmmaJingfeiZhang/REdnet
- Network model goodness-of-fit test [14]
  available at https://github.com/EmmaJingfeiZhang/SBMtest
- Fast network community detection [16]
  available at https://github.com/WangJiangzhou
- Network response regression [18]
  available at https://github.com/EmmaJingfeiZhang/NetReg
- CS-CORE: cell-type-specific co-expression inference from single cell data [19]
  available at https://github.com/ChangSuBiostats/CS-CORE
- High-dimensional graphical regression [20, 34]
  available at https://github.com/EmmaJingfeiZhang/GMMReg
- Fast heterogeneous network community detection [22]
  available at https://github.com/maoyuzhang09/DHNet
- High dimensional Hawkes point process [23]
  available at https://github.com/EmmaJingfeiZhang/HawkesPP
- CSNet: cell-type-specific co-expression estimation from bulk gene expression data [25]
  available at https://github.com/ChangSuBiostats/CSNet_analysis/tree/v1.0.0
- Dynamic network response regression [27]
  available at https://github.com/maoyuzhang09/DNetReg
- DECALS: statistical inference of cell-type proportions [28]
  available at https://github.com/BiaoCai1993/DECALS/tree/main
- High-dimensional tensor mixture model [35]
  available at https://github.com/EmmaJingfeiZhang/HECM

RESEARCH GRANTS

1. NIH RO1 (pending review)

Statistical Methods for Mapping Genetic Effects on Cell-Type-Specific Gene Networks in Alzheimer's Disease

Amount: $743,134

Role: co-PI

2. NSF Statistics Program (DMS-2210469; DMS-2329296; 06/2022-06/2025)

Methods and Theory for Estimating Individual-specific and Cell-type-specific Gene Networks

Amount: $200,000

Role: PI

3. NSF Statistics Program (DMS-2015190; DMS-2326893; 06/2020-06/2024)

Statistical Modeling and Inference for Network Data in Modern Applications

Amount: $192,500

Role: PI

4. Collaborative Research Initiative, University of Miami (CRI-FICMS PG011850; 06/2018-06/2019)

Predicting Protein Network within Animals

Amount: $15,000

Role: co-PI, with co-PIs Chiba, A. and Cai, X.

5. Provost Research Award, University of Miami (05/2016-05/2017)

Detect Fake Online Reviews Using Semantic Network Analysis

Amount: $17,000

Role: co-PI, with co-PI Chen, Z.

6. Provost Research Award, University of Miami (05/2015-05/2016)

Community Detection in Large Scale Product Co-Purchase Network

Amount: $17,000

Role: PI

PRESENTATIONS

Invited Seminars and Workshops

56. University of Virginia, Statistics Colloquium, 2026 (upcoming)

55. Washington University in St. Louis, Statistics & Data Science & Olin Business School Seminar, 2026 (upcoming)

54. University of Waterloo, Statistics and Actuarial Science Seminar, Canada, 2025

53. Unveristy of Georgia, Statistics Seminar, 2025

52. Columbia University, TRAIL4Health seminar, 2025

51. New York University, Biostatistics Seminar, 2025

50. Chinese University of Hong Kong Shenzhen, Statistics Seminar, Shenzhen, China, 2025
49. National University of Singapore, Institute for Mathematical Sciences, Frontiers of Statistical Network Analysis: Inference, Tensors and Beyond, 2025
48. Princeton University, S. S. Wilks Memorial Seminar, 2025
47. University of Hong Kong, HKU Business School Seminar, Hong Kong, 2024
46. Simon Fraser University, Statistics and Actuarial Science Seminar, Canada, 2024
45. National University of Singapore, Institute for Mathematical Sciences, Statistical Machine Learning for High Dimensional Data, 2024
44. Southwestern University of Finance and Economics, Statistics Seminar, China, 2024
43. Fudan University, Statistics Seminar, China, 2024
42. Washington University in St. Louis, Department of Statistics and Data Science, Translational Research on Data Heterogeneity, 2024
41. University of Maryland, Statistics Seminar, 2024
40. University of Southern California, Marshall School of Business, Statistics Empowering Data Science, 2024
39. City University of Hong Kong, Department of Management Sciences, Hong Kong, 2023
38. Hong Kong University of Science & Technology, Statistics and Data Science Seminar, Hong Kong, 2023
37. University of Waterloo, Statistics and Actuarial Science Seminar, Canada, 2023
36. University of Cincinnati, Carl H. Lindner College of Business, OBAIS Seminar, 2023
35. University of Cincinnati, Department of Mathematical Sciences Seminar, 2023
34. University of Warwick, Statistical Analysis of Networks, UK, 2023
33. Renmin University, Statistics Colloquium Series, China, 2023
32. Princeton University, Statistical Foundations of Data Science and their Applications, 2023
31. Southern University of Science and Technology, Statistics Seminar, China, 2023
30. Northeast Normal University, Statistics Seminar, China, 2023
29. Tsinghua University, Statistics Colloquium Series, China, 2023
28. Emory University, Biostatistics and Bioinformatics Seminar, 2023
27. Penn State University, Statistics Colloquium Series, 2022
26. University of Michigan, Modern Statistical and Machine Learning Methods for Big Data, 2022
25. New York University, Statistical Network Analysis and Beyond, 2022
24. Emory University, Goizueta Business School, ISOM Seminar, 2022
23. Rutgers University, Advances in Bayesian & Frequentist Statistics with a Celebration of the 80th Birthday of Professor William E. Strawderman, 2022
22. Hong Kong Polytechnic University, Statistics and Data Science Colloquium, 2022
21. University of Southern California, Marshall School of Business, Data Sciences and Operations Seminar, 2022
20. Central China Normal University, Wuhan, China, Statistics Seminar, China, 2021
19. Renmin University, Beijing, China, Statistics Colloquium, China, 2021

18. George Washington University, Statistics Seminar, 2021
17. Florida State University, Statistics Seminar, 2021
16. University of Pennsylvania, Perelman School of Medicine, Biostatistics Seminar, 2021
15. University of Waterloo, Statistics and Actuarial Science Seminar, Canada, 2020
14. Boston University, Statistics Seminar, 2019
13. Yale University, Biostatistics Seminar, 2019
12. Fudan University, Statistics Seminar, China, 2019
11. Southern University of Science and Technology, Statistics Seminar, China, 2019
10. Chinese University of Hong Kong, Statistics Seminar, Hong Kong, 2018
9. Northeast Normal University, Statistics Seminar, China, 2018
8. Nankai University, Statistics Seminar, China, 2017
7. Simon Fraser University, Statistics and Actuarial Science Seminar, Canada, 2016
6. University of Miami, Finance Brownbag Seminar, 2016
5. University of Alberta, Statistics Seminar, Canada, 2015
4. Beijing University, Statistics and Econometrics Seminar, China, 2015
3. Fudan University, Statistics Seminar, China, 2015
2. University of Miami, Biostatistics Seminar, 2014
1. Syracuse University, Mathematics and Statistics Seminar, 2013

Invited Talks at Scientific Meetings

48. ICSA International Conference, Taipei, 2025
47. Joint Statistical Meetings, Nashville, Tennessee, 2025
46. Joint Conference on Statistics and Data Science in China, Hangzhou, China, 2025
45. Workshop on Statistical Network Analysis and Beyond, Tyoko, Japan, 2025
43. IMSI Workshop on Statistics meets Tensors, University of Chicago, Chicago, 2025
42. International Conference of Computational and Methodological Statistics, London, UK, 2024
41. Tsinghua Sanya International Mathematics Forum, Sanya, China, 2024
40. 2024 First Macau International Conference on Business Intelligence and Analytics, University of Macau, Macau, 2024
39. INFORMS Annual Meeting, Seattle, Washington, 2024
38. Workshop on Causal Inference and Prediction for Network Data, Banff International Research Station, Canada, 2024
37. Joint Statistical Meetings, Portland, Oregon, 2024
36. [*Keynote Address*] International Symposium on Business and Industrial Statistics, Yogyakarta, Indonesia, 2024
35. Workshop on Statistical Network Analysis and Beyond, Nassau, Bahamas, 2024
34. Workshop on biostatistics and bioinformatics, Atlanta, GA, 2024
33. Conference on Statistics in Genomics and Genetics (STATGEN), Pittsburgh, 2024
32. Joint Statistical Meetings, Toronto, Canada, 2023

31. Workshop on Data Science Challenges in Single-Cell Research, Banff International Research Station, Canada, 2023
30. 64th International Statistical Institute World Statistics Congress, Ottawa, Canada, 2023
29. 9th International Forum on Statistics, Beijing, China, 2023
28. Joint Conference on Statistics and Data Science in China, Beijing, China, 2023
27. 12th ICSA International Conference, Hong Kong, 2023
26. Workshop on Statistical Network Analysis and Beyond, Anchorage, 2023
25. ICSA Applied Statistics Symposium, Ann Arbor, 2023
24. International Conference on Econometrics and Statistics, Tokyo, Japan, 2023
23. ENAR Spring Meeting, Nashville, 2023
22. Joint Statistical Meetings, Washington, D.C., 2022
21. ICSA China Conference, Xi'an, China, 2022
20. International Conference on Econometrics and Statistics, Kyoto, Japan, 2022
19. International Conference of Computational and Methodological Statistics, London, 2021
18. Joint Statistical Meetings, virtual, 2021
17. International Conference on Econometrics and Statistics, virtual, 2021
16. International Conference of Computational and Methodological Statistics, virtual, 2020
15. Joint Statistical Meetings, virtual, 2020
14. 11th ICSA International Conference, Hangzhou, China, 2019
13. Joint Statistical Meetings, Denver, 2019
12. ICSA China Conference, Tianjin, China, 2019
11. 5th International Symposium on Data Driven Health and Medicine, Shanghai, 2019
10. International Workshop on Network Data Analysis, Jilin, China, 2018
9. Joint Statistical Meetings, Vancouver, Canada, 2018
8. Institute of Mathematical Statistics Asia Pacific Rim Meeting, Singapore, 2018
7. International Conference on Econometrics and Statistics, Hong Kong, 2018
6. Joint Statistical Meetings, Baltimore, MD, 2017
5. ICSA International Conference on Data Science, Jilin, China, 2017
4. International Conference of Computational and Methodological Statistics, London, UK, 2017
3. Joint Statistical Meetings, Chicago, 2016
2. ICSA Applied Statistics Symposium, Atlanta, 2016
1. Institute of Mathematical Statistics New Researchers Conference, Boston, 2014

EDITORIAL SERVICE

2026 - present	Associate Editor, *Journal of the Royal Statistical Society Series B*
2024 - present	Associate Editor, *Journal of Computational and Graphical Statistics*
2023 - present	Associate Editor, *Journal of the American Statistical Association - Theory and Method*

2022 - present Associate Editor, *Annals of Applied Statistics*

2020 - present Associate Editor, *Statistica Sinica*

2022 - 2024 Guest Editor, *Special Issue on Statistical Network Analysis and Beyond, Statistica Sinica*

2022 - 2024 Associate Editor, *Computational Statistics & Data Analysis* (CSDA)

PROFESSIONAL ACTIVITIES AND SERVICES

Grant Review Panel

- Patient-Centered Outcomes Research Institute (PCORI)
- National Institutes of Health BMRD (NIH)
- National Science Foundation DMS (NSF)
- National Science Foundation ATD (NSF)

Professional Association Committee

- Executive committee, Business and Economics Statistics Section, American Statistical Association (ASA), 2024 - present
- Award Committee, International Chinese Statistical Association (ICSA), 2026 - present
- Chair, Student Paper Award Committee, Business and Economics Statistics Section, American Statistical Association (ASA), 2024 - present
- SLDS Student Paper Competition Committee, Statistical Learning and Data Science Section, American Statistical Association (ASA), 2025

Conference Committee

- Program committee, 2026 Statistical Learning and Data Science (SLDS) Conference, New York, 2026
- Organizing committee, IMSI Workshop on Connectomics: Non-Euclidean Data Analysis for Brain Structure and Function, Chicago, 2026.
- Scientific program committee, 13th ICSA International Conference, Taipei, 2025
- Scientific program committee, 3rd Joint Conference on Statistical and Data Science, Hangzhou, China, 2025
- Statistical data science track chair, Symposium on Data Science and Statistics (SDSS), 2025
- Organizing committee, Workshop on Statistical Network Analysis and Beyond (SNAB), Nassau,
  Bahamas, 2024
- Scientific program committee, International Conference on Econometrics and Statistics (EcoSta), Beijing, China, 2024
- Short course chair, Symposium on Data Science and Statistics (SDSS), Virginia, 2024
- Scientific program committee, 12th ICSA International Conference, Hong Kong, 2023

- Local organizing committee, Quantile Regression and Data Heterogeneity Workshop, Miami, 2023
- Scientific program committee, ICSA China Conference, Xi'an, China, 2022
- Scientific program committee, International Conference on Econometrics and Statistics (EcoSta), Kyoto, Japan, 2022
- Award Committee, Statistical Learning and Data Science Poster Award, Joint Statistical Meetings, Denver, 2019
- Organizing committee co-chair, International Workshop on Network Data, Jilin, China, 2018

Conference Organization

- Invited session at the Joint Conference on Statistics and Data Science (JCSDS), Guizhou, China, 2026
- Topic contributed session at the Joint Statistical Meetings, Nashville, TN, 2025
- Invited sessions at the 3rd Joint Conference on Statistical and Data Science, Hangzhou, China, 2025
- Invited sessions at the 13th ICSA International Conference, Taipei, 2025
- Topic contributed session at the Joint Statistical Meetings, Portland, OR, 2024
- Invited session at the International Conference on Econometrics and Statistics, Beijing, China, 2024
- Invited session at the Joint Statistical Meetings, Toronto, Canada, 2023
- Invited session at the International Conference on Econometrics and Statistics, Kyoto, Japan, 2022
- Invited sessions at the 12th ICSA International Conference, Hong Kong, 2022
- Invited session at the ICSA China Conference, Xi'an, China, 2021
- Invited session at the Joint Statistical Meetings, Philadelphia, PA, 2020
- Invited session at the International Conference on Frontiers of Data Science, Hangzhou, China, 2019
- Topic contributed session at the Joint Statistical Meetings, Vancouver, Canada, 2018
- Invited session at the ICSA Applied Statistics Symposium, Atlanta, GA, 2016

Ad Hoc Journal Reviewing

Journal of the American Statistical Association, Annals of Statistics, Biometrika, Journal of Economics, Management Science, Journal of Machine Learning Research, Computational Statistics & Data Analysis, Statistica Sinica, Technometrics, Biometrics, Journal of Computational and Graphical Statistics, Electronic Journal of Statistics, Journal of Multivariate Analysis, Canadian Journal of Statistics, Network Science, Social Networks, Journal of Statistical Planning and Inference, Stat, Human Brain Mapping

Professional Association Member

- American Statistical Association (ASA)
- International Statistical Institute (ISI)
- Institute of Mathematical Statistics (IMS)
- Institute for Operations Research and the Management Sciences (INFORMS)
- International Chinese Statistical Association (ICSA)

University and School Services

- Faculty advisor, Pocket Aces Trading Club, Emory University, 2025-present
- Faculty advisor, Emory Artificial Intelligence and Data Association (AI Club), Emory University, 2024-present
- Chair, ISOM Faculty Recruiting Committee, Goizueta Business School, Emory University, 2023 - 2024
- Committee member, AI PhD Program, Emory University, 2023- present
- Committee member, QTM Faulty Recruiting Committee, Emory University, 2024-present
- Committee member, HPC governance committee, Goizueta Business School, Emory University, 2023- present
- Committee member, GBS Research Committee, Goizueta Business School, Emory University, 2023- present

ADVISING AND MENTORING

Advisor of Ph.D. Students

- Biao Cai (Management Science, University of Miami), 2021
  Current position: Tenure-track Assistant Professor, Department of Management Science, City University of Hong Kong
- Jie Zhou (Management Science, University of Miami), 2021
  Current position: Applied Scientist at Amazon

Advisor of MS Student

- Zichun Xu (Biostatistics, Yale University), 2023 (joint with Prof. Hongyu Zhao)

Supervisor of Visiting Ph.D. Students

- Yujia Wu (Statistics, Southwestern University of Finance and Economics, China), 2022 - 2024
- Xiao Liu (Statistics, Renmin University of China), 2024 - 2025
- Maoyu Zhang (Statistics, Renmin University of China), 2023 - 2025
- Shuai Liu (Management Science, Xi'an Jiaotong University), 2023 - 2025
- Quan Yuan (Statistics, Northeast Normal University), 2023 - 2024

Research Mentor of Ph.D. Students

- Chang Su (Biostatistics, Yale University), 2021 - 2023
- Jonathan Martinez Gomez (ISOM, Emory University), 2023 - 2024
- Yichao Chen (Statistics, University of Michigan), 2022 – present
- Dongsoo Lee (Biostatistics and Bioinformatics, Emory University), 2023-present
- Yutong Liu (Biostatistics and Bioinformatics, Emory University), 2024-present
- Muye Nanshan (Statistics and Actuarial Science, Simon Fraser University), 2024-present

Ph.D. Dissertation Committee Member

- Jonathan Martinez Gomez (ISOM, Emory University), 2024
- Xinyang Yu (Applied Mathematics, Hong Kong Polytechnic University), 2024
- Jie Jian (Mathematics, University of Waterloo), 2024
- Chang Su (Biostatistics, Yale University), 2023
- Xiao Xiao (Biostatistics, University of Miami), 2021
- Chong Zhao (Management Science, University of Miami), 2018
- Ming Wang (Management Science, University of Miami), 2018