Curriculum Vitae

Panpan Zhang

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Contact:

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Personal Website Google Scholar

Education

• M.A. in **Mathematics**, Wake Forest University, Winston-Salem, NC 08/2010 – 05/2012 Thesis: Statistical self-similarity in time series from financial data & chaotic dynamical systems **Advisor:** Miaohua Jiang

• Ph.D. in **Statistics**, George Washington University, Washington, DC

08/2012 - 05/2016

Dissertation: On properties of several random networks

Advisor: Hosam M. Mahmoud

Postgraduate training: Department of Biostatistics, Epidemiology and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA 08/2018 - 08/2022

Mentor: Sharon X. Xie (Sharon Xie Lab)

Academic Appointments

- Visiting Assistant Professor of Statistics, Department of Statistics, University of Connecticut, Storrs, CT 08/2016 08/2018
- Postdoctoral Researcher, Department of Biostatistics, Epidemiology and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA 08/2018 08/2022
- Assistant Professor of Biostatistics (tenure track), Department of Biostatistics, Vanderbilt University Medical Center, Nashville, TN 09/2022 present
- Assistant Professor of Biostatistics (affiliate faculty), Vanderbilt Memory & Alzheimer's Center, Vanderbilt University Medical Center, Nashville, TN 09/2022 present
- Assistant Professor of Neurology (secondary), Department of Neurology, Vanderbilt University Medical Center, Nashville, TN 09/2022 present

Other Appointments

• **Teaching Assistant,** Department of Mathematics & Statistics, Wake Forest University, Winston-Salem, NC 09/2010 - 05/2012

- Graduate Teaching Assistant, Department of Statistics, George Washington University, Washington, DC 01/2013 05/2015
- Graduate Student Instructor, Department of Statistics, George Washington University, Washington, DC 05/2015 05/2016
- Publications Officer, ASA Statistics in Imaging Section

06/2023 - 12/2025

- Early Career Representative, Data Core Steering Committee, National Alzheimer's Coordinating Cetner

 05/2024 04/2026
- Member, Scientific Review Committee, Parkinson Study Group

07/2024 - 06/2027

Honors and Awards

- Washington Statistical Society's Outstanding Graduate Student Award, Washington Statistical Society, Washington, DC 2015
- First Prize, Graduate Student Oral Presentations, The 9th Annual Probability & Statistics Day, University of Maryland, Baltimore County, Baltimore, MD 2015
- Kullback Award, George Washington University, Washington, DC

2016

• Excellence in Teaching Award, University of Connecticut, Storrs, CT,

Fall 2017

• Excellence in Teaching Award, University of Connecticut, Storrs, CT,

Spring 2018

Professional Organizations

• Member, American Statistical Association (ASA)

2012 – present

- Member, International Biometric Society Eastern North American Region (ENAR) 2018 present
- Member, International Chinese Statistical Association (ICSA)

2022 - present

• Member, Institute of Mathematical Statistics (IMS)

2022 - present

• Member, Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART)

2022 – present

Professional Activities

Intramural Committees

• Faculty coordinator, Weekly Biostatistics Seminar Series, Department of Biostatistics, Vanderbilt University Medical Center, Nashville, TN 2023 – 2024

Extramural Committees

•	Student paper/poster competition committee, New England Statistical Symposium 2019), Hartford, CT	(NESS 2019
•	Program committee, New England Statistical Symposium (NESS 2022), Storrs, CT	2022
•	Local committee (co-chair), ICSA 2024 Applied Statistics Symposium, Nashville, TN	2024
•	Program committee, New England Statistical Symposium (NESS 2024), Storrs, CT	2024
•	Co-chair, IMS New Researchers Conference (NRC 2025), Nashville, TN	2025

Conference Organizations

- Organizer and Chair, an invited session for NESS 2019, Storrs, CT
- Organizer and Chair, an invited session for NESS 2022, Storrs, CT
- Organizer and Chair, an invited session for ENAR 2023 Spring Meeting, Nashville, TN
- Organizer and Chair, an invited session for ICSA 2023 Applied Statistics Symposium, Ann Arbor, MI
- Organizer and Chair, an invited session for WNAR 2023, Anchorage, AK
- Organizer, an invited session for NESS 2023, Boston, MA
- Organizer and Chair, an invited session for ENAR 2024 Spring Meeting, Baltimore, MD
- Organizer and Chair, three invited sessions for NESS 2024, Storrs, CT
- Organizer and Chair, two invited sessions for ICSA 2024 Applied Statistics Symposium, Nashville, TN
- Chair, a contributed paper session (sponsored by the ASA Statistics in Imaging Section), JSM 2024, Portland, OR

Editorial Boards

• Associate Editor, Journal of Data Science 2020 – present

• Guest Editor, "Advances in Network Data Science", Journal of Data Science 2021

• Associate Editor, Methodology and Computing in Applied Probability 2023 – present

Review Services

- 1. Alcohol: Clinical and Experimental Research
- 2. Alzheimer's & Dementia
- 3. Annals of Applied Statistics
- 4. Applied Artificial Intelligence
- 5. Annals of the Institute of Statistical Mathematics
- 6. Applied Probability Trust
 - Advances in Applied Probability
 - Journal of Applied Probability
- 7. Biostatistics
- 8. BMJ Open
- 9. Communications in Statistics—Theory and Methods
- 10. Contemporary Clinical Trials Communications
- 11. Environmental and Ecological Statistics
- 12. Epidemiology & Infection
- 13. Frontiers in Neuroscience
- 14. Journal of Alzheimer's Disease
- 15. Journal of Applied Statistics
- 16. Journal of Computational and Graphical Statistics
- 17. Journal of Computational Science
- 18. Journal of Data Science
- 19. Methodology and Computing in Applied Probability
- 20. Networks and Spatial Economics
- 21. Physica A: Statistical Mechanics and its Applications
- 22. Probability in Engineering and Informational Sciences
- 23. Random Structure & Algorithms
- 24. Statistics and Its Interface
- 25. Statistics in Biosciences
- 26. Statistics & Probability Letters

- 27. Stochastic Systems
- 28. The Lancet Psychiatry
- 29. WIREs Computational Statistics

Dissertation/Thesis Defense Committees

- 1. Yelie Yuan, Ph.D. candidate, Department of Statistics, University of Connecticut, 2023
- 2. Siwei Zhang, Ph.D. candidate, Department of Biostatistics, Vanderbilt University Medical Center, 2024 (expected)

Teaching Activities

George Washington University

- Introduction to Statistics in Social Science (STAT 1053) (Summer 2015)
- Introduction to Business and Economic Statistics (STAT 1051) (Fall 2016, Spring 2017)

University of Connecticut

- Mathematical Statistics I (STAT 3375Q) (Fall 2016/2017, Spring 2018)
- Mathematical Statistics II (STAT 3445Q) (Spring 2017)
- Introduction to Statistics II (STAT 2215Q) (Spring 2018)

Vanderbilt University Medical Center

- Biostatistics I (MSCI 5009-01) (Fall 2022)
- Advanced Concepts in Probability and Real Analysis for Biostatisticians (BIOS 7361) (Fall 2024)

Research Programs

Present Funding

1. 5R01AG034962-09 (NIA)

06/01/2020 - 03/31/2026

PI: Angela L. Jefferson

Title: Vanderbilt Memory & Aging Project

Role: Co-Investigator

2. 5U24AG074855-02 (NIA)

10/01/2021 - 08/31/2026

PI: Timothy J. Hohman

Title: Alzheimer's Disease Sequencing Project Phenotype Harmonization Consortium

Role: Biostatistician

3. 5R01AG062826-03 (NIA)

02/01/2020 - 01/31/2025

PI: Katherine A. Gifford

Title: Subjective Cognitive Decline in Older Adults

Role: Biostatistician

4. 5R01EB017230-06 (NIBIB)

09/20/2015 - 06/30/2025

PI: Bennett A. Landman

Title: Controlling Quality and Capturing Uncertainty in Advanced Diffusion Weighted MRI

Role: Biostatistician

5. 1P20AG068082-01 (NIA)

08/15/2020 - 07/31/2024

PI: Angela L. Jefferson

Title: Vanderbilt Alzheimer's Disease Research Center

Role: Co-Investigator

Publications

Peer-Reviewed Journal Publications

(* refers to the corresponding author)
(† refers to my students, postdocs or trainees)

- 1. Zhang, P.*, Chen, C. and Mahmoud, H. M. (2015). Explicit characterization of moments of balanced triangular Pólya urns by an elementary approach. Statistics & Probability Letters, 96, 149–153. MR3281759 DOI
- 2. **Zhang**, **P.*** and Mahmoud, H. M. (2016). Distributions in a class of Poissonized urns with an application to Apollonian networks. *Statistics & Probability Letters*, **115**, 1–7. MR3498362 DOI
- 3. **Zhang**, **P.*** and Mahmoud, H. M. (2016). The degree profile and weight in Apollonian networks and k-trees. Advances in Applied Probability, **48**(1), 163–175. MR3473572 DOI
- 4. Chen, C. and Zhang, P.* (2019). Characterizations of asymptotic distributions of continuous-time Pólya processes. Communications in Statistics—Theory and Methods, 48(21), 5308–5321. MR4007715 DOI
- 5. **Zhang**, **P.*** and DEY, D. K. (2019). The degree profile and Gini index of random caterpillar trees. *Probability in Engineering and Informational Sciences*, **33**(4), 511–527. MR4010508 DOI
- 6. Ouyang, G., Dey, D. K. and **Zhang**, **P.*** (2020). Clique-based method for social network clustering. *Journal of Classification*, **37**(1), 254–274. MR4111894 DOI
- 7. **Zhang**, **P.*** and Mahmoud, H. M. (2020). On nodes of small degrees and degree profile in preferential dynamic attachment circuits. *Methodology and Computing in Applied Probability*, **22**(2), 625–645. MR4104007 DOI

8. Mahmoud, H. M. and Zhang, P.* (2020). Distributions in the constant-differentials Pólya process. Statistics & Probability Letters, 156, 108592. MR3996837 DOI

- 9. **Zhang, P.*** (2020). On several properties of a class of preferential attachment trees—plane-oriented recursive trees. *Probability in Engineering and Informational Sciences*, **35**(4), 839–857. MR4320478 DOI
- ROBINSON, J. L., PORTA, S., GARRETT, F. G., Zhang, P., XIE, S. X., SUN, E., VAN DEER-LIN, V. M., ABNER, E. L., JICHA, G. A., BARBER, J. M., LEE, V. M.-Y., LEE, E. B., TROJANOWSKI, J. Q. and Nelson, P. T.* (2020). Limbic-predominant age-related TDP-43 encephalopathy differs from frontotemporal lobar degeneration. *Brain*, 143(9), 2844–2857. DOI PMID: 32830216 PMCID: PMC7526723
- 11. **Zhang**, P.*, Wang, T. and Xie, S. X. (2020). Meta-analysis of several epidemic characteristics of COVID-19. *Journal of Data Science*, **18**(3), 536–549. <u>DOI PMID: 33088292 PMCID: PMC7575205</u>
- 12. **Zhang**, P.* (2020). Characterizing several properties of high-dimensional random Apollonian networks. *Journal of Complex Networks*, 8(4), cnaa038. MR4189631 DOI
- 13. GALARZA, C. E., **Zhang**, **P.** and LACHOS, V. H.* (2021). Logistic quantile regression for bounded outcomes using a family of heavy-tailed distributions. *Sankhya B*, **83**(2), 325–349. MR4332185 DOI
- 14. Yuan, Y., Yan, J. and **Zhang**, P.* (2021). Assortativity measures for weighted and directed networks. *Journal of Complex Networks*, 9(2), cnab017. MR4266155 DOI
- 15. Wang, T., Xiao, S., Yan, J. and **Zhang, P.*** (2021). Regional and sectoral structures and their dynamics of Chinese economy: A network perspective from multi-regional input-output tables. *Physica A: Statistical Mechanics and its Applications*, **581**, 126196. DOI
- 16. Tang, C., Wang, T. and **Zhang**, **P.*** (2022). Functional data analysis: An application to COVID-19 data in the United States. *Quantitative Biology*, **10**(2), 172–187. <u>DOI</u> (equal contribution)
- 17. **Zhang**, P.* and WANG, X. (2022). Several topological indices of random caterpillars. *Methodology* and Computing in Applied Probability, 24(3), 1773–1789. MR4457565 DOI
- 18. REN, Y., **Zhang**, **P.*** and DEY, D. K. (2022). Investigating several fundamental properties of random lobster trees and random spider trees. *Methodology and Computing in Applied Probability*, **24**(1), 431–447. MR4379497 DOI
- 19. **Zhang**, P.*, Wang, T. and Yan, J. (2022). PageRank centrality and algorithms for weighted, directed networks. *Physica A: Statistical Mechanics and its Applications*, **586**, 126438. DOI
- 20. Wang, T.* and **Zhang**, **P.** (2022). Directed hybrid random networks mixing preferential attachment with uniform attachment mechanisms. *Annals of the Institute of Statistical Mathematics*, **74**(5), 957–986. MR4467842 DOI
- 21. LI, X., Zhang, P.* and FENG, Q. (2022). Exploring COVID-19 in Mainland China during the lockdown of Wuhan via functional data analysis. Communications for Statistical Applications and Methods, 29, 103–125. DOI
- 22. **Zhang**, P.* (2022). The Zagreb index of several random models. *Journal of Stochastic Analysis*, **3**(1), article no. 1. MR4385450 <u>DOI</u>

23. Chen, J. and Zhang, P.* (2022). Clustering US states by time series of COVID-19 new case counts with non-negative matrix factorization. *Journal of Data Science*, **20**(1), 79–94. DOI

- 24. Weinshel, S., Irvin, D. J., Zhang, P., Weintraub, D., Shaw, L. M., Siderowf, A. and Xie, S. X.* (2022). Appropriateness of applying CSF biomarker cutoffs from Alzheimer's disease to Parkinson's disease. *Journal of Parkinson's Disease*, **12**(4), 1155–1167. <u>DOI PMID: 35431261 PMCID: PMC9934950</u>
- 25. Wang, T., Yan, J., Yuan, Y. and **Zhang**, **P.*** (2022). Generating directed networks with predetermined assortativity measures. *Statistics and Computing*, **32**(5), article no. 91. MR4493723 DOI (equal contribution)
- 26. XIAO, S.*, YAN, J. and **Zhang, P.** (2022). Incorporating auxiliary information in betweenness measure for input-output networks. *Physica A: Statistical Mechanics and its Applications*, **607**, 128200. MR4497328 DOI
- 27. Domicolo, C., **Zhang**, **P.*** and Mahmoud, H. M. (2022). The degree Gini index of several classes of random trees and their poissonized counterparts—Evidence for duality. *Journal of Stochastic Analysis*, **3**(4), article no. 1. MR4527142 DOI
- 28. **Zhang**, **P.*** (2023). On several properties of a class of hybrid recursive trees. *Methodology and Computing in Applied Probability*, **25**(1), 16. MR4547421 DOI
- 29. MECHANIC-HAMILTON, D.*, LYDON, S., XIE, S. X., Zhang, P., MILLER, A., RASCOVSKY, K. RHODES, E. and MASSIMO, L. (2023). Turning apathy into action in neurodegenerative disease: Development and pilot testing of a goal-directed behaviour app. *Neuropsychological Rehabilitation*, 34(4), 469–484. DOI PMID: 37128648 PMCID: PMC10600325
- 30. Chen, Y., Sewell, D., **Zhang**, **P.*** and Zhu, X. (2023). Editorial: Advances in network data science. *Journal of Data Science*, **21**(3), 443–445. DOI
- 31. Ouyang, G., Dey, D. K. and **Zhang**, **P.*** (2023). A mixed-membership model for social network clustering. *Journal of Data Science*, **21**(3), 508–522. DOI
- 32. Yuan, Y.*, Wang, T., Yan, J. and Zhang, P. (2023). Generating general preferential attachment networks with R package wdnet. *Journal of Data Science*, 21(3), 538–556. DOI
- 33. Liu, J., Ye, Z., Chen, K. and **Zhang, P.*** (2024). Variational Bayesian inference for bipartite mixed-membership stochastic block model with applications to collaborative filtering. *Computational Statistics & Data Analysis*, **189**, 107836. MR4636722 DOI
- 34. Yuan, Y., Yan, J. and **Zhang**, **P.*** (2024). A Strength and sparsity preserving algorithm for generating weighted, directed networks with predetermined assortativity. Revision invited by *Physica A: Statistical Mechanics and its Applications*, **638**, 129634. MR4711177 DOI
- 35. NEAL, J. E., **Zhang**, **P.** and Liu, D.* (2024). Predictive partly conditional models for longitudinal ordinal outcomes with application to Alzheimer's disease progression. Tentatively accepted by *Statistics in Biosciences* (in press).
- 36. **Zhang**, **P.*** and Mahmoud, H. M. (2024). The Sackin index and depth of leaves in generalized Schröder trees. *Stochastic Models* (in press).

37. Kim, M. E., Gao, C., Cai, L. Y., Yang, Q., Newlin, N. R., Ramadass, K., Jefferson, A., Archer, D., Shashikumar, N., Pechman, K. R., Gifford, K. A., Hohman, T. J., Heldbeason, L. L., Resnicki, S. M., Winzeck, S., Schilling, K. G., Zhang, P., Moyer, D. and Landman, B. A. (2024). Empirical assessment of the assumptions of Combat with diffusion tensor imaging. *Journal of Medical Imaging*, 11(2):024011. DOI PMID: 38655188 PMCID: PMC1034156

Peer-reviewed Conference Proceedings

1. **Zhang**, **P.*** (2016). On terminal nodes and the degree profile of preferential dynamic attachment circuits. In *Proceedings of SIAM: Thirteenth Workshop on Analytic Algorithmics and Combinatorics* (ANALCO 16), 80–92. Arlington, VA. MR3480250 DOI

Book Chapters

1. **Zhang**, **P.*** and Glaz, J. (2018). "Scan Statistics on Graphs and Networks." In: Glaz, J. and Koutras, M. (Eds.) *Handbook of Scan Statistics*, 1–36. Springer, New York, NY. DOI

Software

- 1. XIAO S., YAN J. and **Zhang**, **P.** (2022). ionet: Network analysis for input-output tables. R package version 0.2.2, https://github.com/Carol-seven/ionet.
- 2. YUAN, Y., WANG, T., YAN, J. and **Zhang**, **P.** (2024). wdnet: Weighted and Directed Network. R package version 1.2.3, https://cran.r-project.org/web/packages/wdnet/index.html.

Preprints

- 1. Suttner, L. H., Zhang, P. and Xie, S. X.* (2023+). Nonparametric estimation for time-varying missing covariates in longitudinal models. Submitted to *Statistics in Medicine*. (co-first authorship: Suttner, L. H. and Zhang, P.)
- 2. Kang, K., Zhang, P., Mukherjee, S., Lee, M. L., Choi, S.-E., Trittschuh, E. H., Mez, J., Gifford, K. A., Buckley, R. F., Gao, X., Di, J., Crane, P. K., Hohman, T. J. and Liu, D.*. (2023+) Double anchoring events based sigmoidal mixed model: An application in Alzheimer's disease progression. Submitted to *Alzheimer's Research & Therapy*. (co-first authorship: Kang, K. and Zhang, P.)
- 3. Moore, E. E., Zhang, P., Khan, O. A., Liu, D., Gupta, D. K., Pechman, K. R., Gifford, K. A., Landman, B. A., Hohman, T. J. and Jefferson, A. L. (2023+). Lower cardiac output is associated with atrophy in regions specific to Alzheimer's disease over a 6-year follow-up period. Submitted to *Circulation*.
- 4. Gao, C., Yang, Q., Kim, M., Khairi, N. M., Cai, L. Y., Newlin, N., Kanakaraj, P., Remedios, L. W., Krishnan, A. R., Yu, X., Yao, T., Zhang, P., Schilling, K. G., Moyer, D., Shafer, A. T., Resnick, S. M. and Landman, B. A. (2023+). Characterizing patterns of DTI variance in aging brains. Submitted to *Medical Physics*.
- 5. **Zhang**, **P.** and XIE, S. X.* (2023+). Bias and efficiency comparison between multiple imputation of missing data and available-case analysis in longitudinal studies. Submitted to *Statistical Methods in Medical Research*.

Manuscripts in Preparation

1. **Zhang**, **P.** and Xie, S. X.* (2023+). An efficient approach for handling missing data in nonlinear longitudinal models.

- 2. Zhang, P.*, XIAO, S., ROBB, W. H., YAN, J. and LIU, D. (2023+). Application of Gaussian graphical models to functional connectivity analysis: A statistical review and application.
- 3. **Zhang**, P.*, Wang, X., Robb, W. H. and Liu, D. (2023+). Bayesian model for network models with the emergence of measurement errors.
- 4. Dolui, S.*, Tisdall, M. D., Vidorreta, M., Nasrallah, I. M., Habes, M., Zhang, P., Davatzokos, C., Xie, S. X., Wolk, D. A. and Detre, J. A. (2022+). Cerebral microvascular perfusion as a biomarker of cerebral small vessel function.

Presentations and Posters

- 1. Poster presenter at the 12th Graduate Student and Postdoctoral Research Day, Wake Forest University, Winston Salem, NC, 2012.
- 2. Invited speaker at the Probability Seminar, George Washington University, Washington, DC, 2014.
- 3. Invited speaker at the GWU STAT Student Seminar, George Washington University, Washington, DC, 2014.
- 4. Invited speaker at the Seminar in Probability, Catholic University of America, Washington, DC, 2015.
- 5. Contributed speaker at the 9th Annual Probability & Statistics Day, University of Maryland at Baltimore County, Baltimore, MD, 2015.
- 6. Invited speaker at the Mathematics Department Colloquium, Wake Forest University, Winston-Salem, NC, 2015.
- 7. Contributed speaker at the 11th Annual UNCG Regional Mathematics and Statistics Conference, University of North Carolina at Greensboro, Greensboro, NC, 2015.
- 8. Invited speaker at the 13th Workshop on Analytic Algorithmics and Combinatorics (ANALCO 16), Arlington, VA, 2016.
- 9. Invited speaker at the Statistics Department Colloquium, University of Connecticut, Storrs, CT, 2016.
- 10. Poster presenter at the SouthEastern Probability Conference, Duke University, Durham, NC, 2017.
- 11. Invited speaker at the International Workshop of on Applied Probability (IWAP 2018), Budapest, Hungary, 2018.
- 12. Invited speaker at the New England Statistical Symposium (NESS 2019), Hartford, CT, 2019.
- 13. Invited speaker and short course instructor at the Virtual Conference on Data Science in Action (organized by Shanxi University of Finance and Economics), online, 2020.

- 14. Contributed speaker at the Joint Statistical Meeting (JSM 2020), online, 2020.
- 15. Invited speaker at Data Science in Action in Response to the Outbreak of COVID-19 (jointly sponsored by Korea Food & Drug Administration and Korean Region of International Biometric Society), online, 2020.
- 16. Invited speaker at the Brown Bag Forum (organized by DBEI at Penn Medicine), online, 2021.
- 17. Contributed speaker at the spring meeting of the Eastern North American Region (ENAR 2021), online, 2021.
- 18. Poster presenter at the Research Day 2021 (organized by DBEI at Penn Medicine), online, 2021.
- 19. Invited speaker at the School of Statistics Seminar, Renmin University of China, online, 2021.
- 20. Guided poster presenter at the MDS Virtual Congress 2021 (sponsored by International Parkinson and Movement Disorder Society), online, 2021.
- 21. Invited speaker at the Applied Mathematics Webinar (jointly sponsored by Imam Abdulrahman Bin Faisal University, King Saud University, Université de Tunis El Manar and University of Jeddah), online, 2022.
- 22. Invited speaker at the Brown Bag Forum (organized by DBEI at Penn Medicine), online, 2022.
- 23. Poster presenter at the New Research Conference 2022 (NRC 2022, sponsored by IMS), George Mason University, Fairfax, VA, 2022.
- 24. Poster presenter at the MDS International Congress 2022 (sponsored by International Parkinson and Movement Disorder Society), hybrid (Madrid, Spain), 2022.
- 25. Invited speaker at the 4th International Conference on Statistical Distributions and Applications (ICOSDA 2022), Huntington, WV, 2022.
- 26. Invited speaker at the Statistical Methods in Imaging Conference (SMI 2023), Minneapolis, MN, 2023.
- 27. Invited speaker at the 32nd Annual Applied Statistics Symposium for the International Chinese Statistical Association (ICSA 2023), Ann Arbor, MI, 2023.
- 28. Invited speaker at the annual meeting of the Western North American Region (WNAR/IMS 2023), Anchorage, AK, 2023.
- Invited speaker at the 6th International Conference on Econometrics and Statistics (EcoSta 2023), hybrid (Tokyo, Japan), 2023.
- 30. Invited speaker at the 16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023), hybrid (Berlin, Germany), 2023.
- 31. Invited speaker at the Applied Mathematics Seminar, Shanghai Center for Mathematical Sciences (Fudan University), Shanghai, China, 2023.
- 32. Invited speaker at the Statistics and Data Science Seminar, Auburn University, hybrid (Auburn, AL), 2024.

33. Invited speaker at the 37th New England Statistics Symposium (NESS 2024), Storrs, CT, 2024.

- 34. Invited speaker at the Statistical Methods in Imaging Conference (SMI 2024), Indianapolis, IN, 2024.
- 35. Invited speaker at the 33rd Annual Applied Statistics Symposium for the International Chinese Statistical Association (ICSA 2024), Nashville, TN, 2024.
- 36. Invited speaker at the Advancing Brain Network Research Workshop (UNC-EPIC: NeuroConnect 2024), hybrid (Blowing Rock, NC), 2024.