

# Curriculum Vitae

## Panpan Zhang

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[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 – 12/2024
- **Early Career Representative**, Data Core Steering Committee, [National Alzheimer's Coordinating Center](#) 05/2024 – 04/2026

## 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 (NESS 2019), Hartford, CT 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**, 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. BMJ Open
8. Communications in Statistics—Theory and Methods
9. Contemporary Clinical Trials Communications
10. Environmental and Ecological Statistics
11. Epidemiology & Infection
12. Frontiers in Neuroscience
13. Journal of Alzheimer’s Disease
14. Journal of Applied Statistics
15. Journal of Computational and Graphical Statistics
16. Journal of Computational Science
17. Journal of Data Science
18. Methodology and Computing in Applied Probability
19. Networks and Spatial Economics
20. Physica A: Statistical Mechanics and its Applications
21. Probability in Engineering and Informational Sciences
22. Random Structure & Algorithms
23. Statistics and Its Interface
24. Statistics in Biosciences
25. Statistics & Probability Letters
26. Stochastic Systems
27. The Lancet Psychiatry
28. 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](#)
10. ROBINSON, J. L., PORTA, S., GARRETT, F. G., **Zhang, P.**, XIE, S. X., SUN, E., VAN DEERLIN, 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. [DOI](#) PMID: 33088292 PMCID: PMC7575205
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. [DOI](#) (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](#) [DOI](#)
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. [DOI](#) PMID: 35431261 PMCID: PMC9934950
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* (in press). [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., HELD-BEASON, 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* (in press).

## 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 EI 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.
29. 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 Statistical Methods in Imaging Conference (SMI 2024), Indianapolis, IN, 2024.
34. Invited speaker at the 33rd Annual Applied Statistics Symposium for the International Chinese Statistical Association (ICSA 2024), Nashville, TN, 2024.