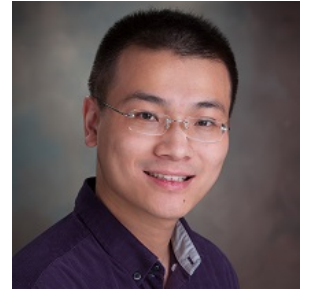


Zhiyang Zhou, Ph.D.

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Academic Interests

- Functional/longitudinal data analysis;
- Deep learning/deep neural network;
- Survival analysis;
- Tensor data analysis;
- Design of experiments.

Employment

- 2023– **Assistant Professor (Tenure-Track)**, University of Wisconsin-Milwaukee, United States.
- 2021–23 **Assistant Professor (Tenure-Track)**, University of Manitoba, Canada.
- 2020–21 **Postdoctoral Trainee**, Northwestern University, United States.
Supervisor: Lihui Zhao, Associate Professor.
- 2019 **Sessional Instructor**, Simon Fraser University, Canada.

Education

- 2015–20 **Ph.D. in Statistics**, Simon Fraser University, Canada.
Supervisor: Richard A. Lockhart, Professor, Fellow of Royal Society of Canada.
Thesis: *Supervised Basis Functions Applied to Functional Regression and Classification*.
- 2009–12 **M.Sc. in Probability & Statistics**, Nankai University, China.
Supervisor: Runchu Zhang, Professor.
- 2005–09 **B.Sc. in Statistics**, Beijing Normal University, China.

Publications

Peer-reviewed

- 1 Liu, J., **Zhou, Z.**, Cheng, X., Zhang, D., Li, L., Zhang, X., & Vangeepuram, N. (2024). Food insecurity trends and disparities according to immigration status in the us households, 2011–2021. *Preventive Medicine*, 187, 108121.
🌐 <https://doi.org/10.1016/j.ypmed.2024.108121>
- 2 Deng, Y., Liu, L., Jiang, H., Peng, Y., Wei, Y., **Zhou, Z.**, Zhong, Y., Zhao, Y., Yang, X., Yu, J., Lu, Z., Kho, A., Ning, H., Allen, N. B., Wilkins, J. T., Liu, K., Lloyd-Jones, D. M., & Zhao, L. (2023). Comparison of state-of-the-art neural network survival models with the pooled cohort equations for cardiovascular disease risk prediction. *BMC Medical Research Methodology*, 23, 22. 🌐 <https://doi.org/10.1186/s12874-022-01829-w>
- 3 Liu, J., **Zhou, Z.**, Cheng, X., & Vangeepuram, N. (2023). Geographic and sociodemographic variations in prevalence of mental health symptoms among us youths, 2022. *American Journal of Public Health*, 113, 1116–1119.
🌐 <https://doi.org/10.2105/AJPH.2023.307355>
- 4 **Zhou, Z.**, & Sang, P. (2022). Continuum centroid classifier for functional data. *Canadian Journal of Statistics*, 50, 200–220.
🌐 <https://doi.org/10.1002/cjs.11624>



- 5 Zhao, Y., Wang, Y., Liu, J., Xia, H., Xu, Z., Hong, Q., **Zhou, Z.**, & Petzold, L. (2021). Empirical quantitative analysis of COVID-19 forecasting models. *2021 International Conference on Data Mining Workshops (ICDMW)*, 517–526.
<https://doi.org/10.1109/ICDMW53433.2021.00069>
- 6 **Zhou, Z.** (2021). Fast implementation of partial least squares for function-on-function regression. *Journal of Multivariate Analysis*, 185, 104769. <https://doi.org/10.1016/j.jmva.2021.104769>
- 7 **Zhou, Z.** (2019). Functional continuum regression. *Journal of Multivariate Analysis*, 173, 328–346.
<https://doi.org/10.1016/j.jmva.2019.03.006>
- 8 **Zhou, Z.**, & Zhang, R. (2014). A generalized general minimum lower order confounding criterion for nonregular designs. *Journal of Statistical Planning and Inference*, 148, 95–100. <https://doi.org/10.1016/j.jspi.2013.12.003>
- 9 Wang, W., Gong, D., **Zhou, Z.**, & Guo, Y. (2012). Robustness of the aerosol weekly cycle over Southeastern China. *Atmospheric Environment*, 61, 409–418. <https://doi.org/10.1016/j.atmosenv.2012.07.029>

Research Grants

2022–23  **Principal Investigator**, NSERC Discovery Grants (early terminated due to relocation).

Service




Editorial Board Member

2024–25  *hLife* (Youth Editorial Board).
 2024–26  *Journal of Multivariate Analysis* (Early Career Advisory Board).






Conference Committee Member



2024  Program Committee for the 6th ICSA-Canada Chapter Symposium.
 Scientific Committee for the 5th International Applied Statistics Conference (UYIK-2024).

Reviewer









-  **Grants:** NSERC Discovery Grants.
-  **Journals:** *American Journal of Public Health*, *Biometrics*, *Biostatistics and Epidemiology*, *Canadian Journal of Statistics*, *Chemometrics and Intelligent Laboratory Systems*, *Computational Statistics*, *Environmental Modeling & Assessment*, *hLife*, *IISE Transactions*, *Journal of Computational and Graphical Statistics*, *Journal of Medical Internet Research*, *Journal of Multivariate Analysis*, *Knowledge-Based Systems*, *Mathematical Modelling and Analysis*, *Statistics in Medicine*, *Statistics and Probability Letters*, *Technometrics*, *The American Statistician*, *Trials*.
-  **Conferences:** *Conference on Neural Information Processing Systems (NeurIPS)*, *International Conference on Learning Representations (ICLR)*.

Invited Presentations

2024  7th International Conference on Econometrics and Statistics (EcoSta 2024).
 2nd Joint Conference on Statistics and Data Science in China.
 SFU Statistical Learning for Large Scale Data Conference.
 6th ICSA-Canada Chapter Symposium.
 Southeast Wisconsin Data Science (SEAWINDS) Collaborative First Annual Research Symposium.



2023  16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023).
 12th ICSA International Conference.

Invited Presentations (continued)




- 2022  15th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022).
-  Biostatistics and Bioinformatics Round, George & Fay Yee Centre for Healthcare Innovation.
-  Biostatistics Seminar Series, Northwestern University.
-  5th ICSA-Canada Chapter Symposium.
-  ICSA Applied Statistics Symposium.
-  Machine Learning Special Interest Group Meeting, George & Fay Yee Centre for Healthcare Innovation.
- 2021  NIC-ASA & ICSA Midwest Chapter Joint Fall Meeting.
-  ICSA Applied Statistics Symposium.

Teaching

Supervision

-  **Master Students:** Christopher Sullivan (2024–, Biostatistics, uwm.edu), Ian Nadolski (2023–, Biostatistics, uwm.edu), Manthan Mehta (2023–, Biostatistics, uwm.edu), Kelly Wikoff (2023–24, Biostatistics, uwm.edu), Ke Wang (2022–24, Statistics, umanitoba.ca), Yuting Kang (2023–, Math, ctgu.edu.cn, with Chang-Lin Xiang and Changyu Guo as senior supervisors).
-  **Undergraduate Students:** Omar Hassan (2022–23, Physics & Astronomy, umanitoba.ca, with Wouter Deconinck as the senior supervisor).

Courses

-  **University of Wisconsin-Milwaukee:** PH 712 Probability and Statistical Inference (2024), PH 716 Applied Survival Analysis (2024).
-  **University of Manitoba:** STAT 3100 Introduction to Statistical Inference (2022), STAT 3690 Multivariate Analysis (2022–23), STAT 4100 Statistical Inference (2022).
-  **Simon Fraser University:** STAT 450 Statistical Theory (2019).

Miscellaneous

Award

- 2021  **Best Paper Award**, 9th Workshop on Data Mining in Biomedical Informatics and Healthcare (DMBIH'21) in Conjunction with IEEE International Conference on Data Mining (ICDM'21).
- 2019  **Excellence in Teaching**, Simon Fraser University Faculty of Science.