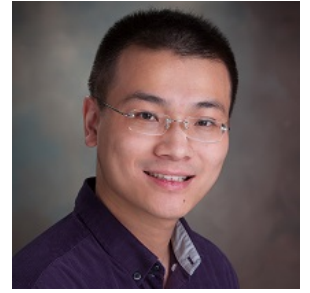


Zhiyang Zhou, Ph.D.

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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 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>
- 2 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>
- 3 **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>
- 4 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>

- 5 **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>
- 6 **Zhou, Z.** (2019). Functional continuum regression. *Journal of Multivariate Analysis*, 173, 328–346. <https://doi.org/10.1016/j.jmva.2019.03.006>
- 7 **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>
- 8 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>

Under review



- 1 Liu, J., **Zhou, Z.**, Cheng, X., Zhang, D., Li, L., Zhang, X., & Vangeepuram, N. (2023). *Trends and disparities in food insecurity prevalence by immigration status in the united states from 2011 to 2021* [under review].

Research Grants

- 2022–23  **Principal Investigator**, NSERC Discovery Grants (with Discovery Launch Supplement; terminated early 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  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*, *Trials*.
-  **Conferences:** *Conference on Neural Information Processing Systems (NeurIPS)*, *International Conference on Learning Representations (ICLR)*.

Invited Presentations



- 2024  17th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2024).
-  7th International Conference on Econometrics and Statistics (EcoSta 2024).
-  6th ICSA-Canada Chapter Symposium
-  1st Annual Southeast Wisconsin Data Science Research Symposium (SEAWINDS 2024).
- 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:** Ian Nadolski (2023–, Public Health, uwm.edu), Manthan Mehta (2023–, Public Health, uwm.edu), Kelly Wikoff (2023–, Public Health, uwm.edu), Ke Wang (2022–, 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 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.