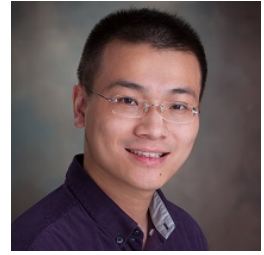


Zhiyang Zhou, Ph.D.

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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











- 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>



Research Grants

- 2022 – 23  **Principal Investigator**, NSERC Discovery Grant (with Discovery Launch Supplement).
- 2021 – 23  **Principal Investigator**, University of Manitoba Research Startup Fund.



Invited Presentations

- 2023  International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023)
-  ICSA International Conference.
- 2022  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.
-  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



-  **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).

Supervision



-  **Master Students:** 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).

Miscellaneous

Award

- 2021  **Best Paper Award**, the 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.

Reviewer

-  **Journals:** *American Journal of Public Health, Biometrics, Biostatistics and Epidemiology, Canadian Journal of Statistics, Chemometrics and Intelligent Laboratory Systems, Computational Statistics, Environmental Modeling & Assessment, 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).*