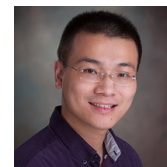


# Zhiyang Zhou, Ph.D., Asst. Prof.

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🌐 <https://zhiyanggeezhou.github.io/>



## Academic Interests

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

## Employment

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

## Education



- 2015 – 2020 📖 **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 – 2012 📖 **M.Sc. in Probability & Statistics**, Nankai University, China.  
Supervisor: Runchu Zhang, Professor.
- 2005 – 2009 📖 **B.Sc. in Statistics**, Beijing Normal University, China.

## Publications

- 1 📖 **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>
- 2 📖 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. *The 9th Workshop on Data Mining in Biomedical Informatics and Healthcare (DMBIH'21) in Conjunction with IEEE International Conference on Data Mining (ICDM'21)*. 🔗 <https://arxiv.org/abs/2110.00174>
- 3 📖 **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>
- 4 📖 **Zhou, Z.** (2019). Functional continuum regression. *Journal of Multivariate Analysis*, 173, 328–346. 🔗 <https://doi.org/10.1016/j.jmva.2019.03.006>
- 5 📖 **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>
- 6 📖 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

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- 2022 – 2027      **Principal Investigator**, NSERC Discovery Grant (with Discovery Launch Supplement).
- 2021 – 2027      **Principal Investigator**, University of Manitoba Research Startup Fund.



## Invited Presentations

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- 2023      ICSA International Conference.
- 2022      International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022).
-  Northwestern Biostatistics Seminar Series, Feinberg School of Medicine.
-  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

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-  **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 Fall).

## Supervision



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-  Ke Wang (M.Sc. student, 2022 Fall–).



## Miscellaneous

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### 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:** *Biometrics*, *Biostatistics & Epidemiology*, *Computational Statistics*, *Canadian Journal of Statistics*, *IIE Transactions*, *Journal of Computational & Graphical Statistics*, *Journal of Multivariate Analysis*, *Knowledge-Based Systems*, *Mathematical Modelling and Analysis*, *Statistics in Medicine*, *Statistics & Probability Letters*, *Technometrics*, *Trials*.
-  **Conferences:** *Conference on Neural Information Processing Systems (NeurIPS)*, *International Conference on Learning Representations (ICLR)*.