

Zhiyang Zhou, Ph.D.

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🌐 <https://zhiyanggeezhou.github.io/>

Academic Interests

- 📖 Dynamic Risk Prediction.
- 📖 Functional Data Analysis.
- 📖 Design of Experiments.

Employment

- 2020 – 📖 **Postdoc Scholar**, Northwestern University Feinberg School of Medicine, 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.**, Allen, N. B., Liu, L., Liu, K., Lloyd-Jones, D. M., Wilkins, J. T., & Zhao, L. (2021). *Dynamic prediction for cardiovascular disease risk factors utilizing multiple cohorts* [In preparation].
- 2 **Zhou, Z.** (2020). *Fast implementation of partial least squares for function-on-function regression* [Manuscript submitted]. [🔗 https://arxiv.org/abs/2005.04798](https://arxiv.org/abs/2005.04798)
- 3 **Zhou, Z.** (2019). Functional continuum regression. *Journal of Multivariate Analysis*, 173, 328–346.
[🔗 https://doi.org/10.1016/j.jmva.2019.03.006](https://doi.org/10.1016/j.jmva.2019.03.006)
- 4 **Zhou, Z.**, & Lockhart, R. (2019). *Partial least squares for sparsely observed curves with measurement errors* [Manuscript submitted]. [🔗 https://arxiv.org/abs/2003.11542](https://arxiv.org/abs/2003.11542)
- 5 **Zhou, Z.**, & Sang, P. (2019). Continuum centroid classifier for functional data. *Canadian Journal of Statistics*, Accepted.
- 6 **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](https://doi.org/10.1016/j.jspi.2013.12.003)
- 7 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](https://doi.org/10.1016/j.atmosenv.2012.07.029)

Teaching Experience


- 2019  **STAT 450 Statistical Theory**, Dept. of Statistics & Actuarial Science, Simon Fraser University.
Review of distribution theories; point and interval estimation and hypothesis testing in finite samples; convergence concepts for estimators; large sample approximations to distributions of estimators; hypothesis testing and interval estimation in large samples.

Miscellaneous

Award

- 2019  **Excellence in Teaching**, Faculty of Science, Simon Fraser University.

Journal Reviewers

- 2015 –  *Computational Statistics, Journal of Computational and Graphical Statistics, Journal of Multivariate Analysis, Knowledge-Based Systems, Statistics and Probability Letters.*