

Haixu Wang

CONTACT INFORMATION	Address: 8888 University Drive Burnaby, B.C., V5A 1S6 Github: github.com/alex-haixuw Website: haixu-alex.me	604-376-6267 Email: haixuw@sfu.ca
RESEARCH INTERESTS	Functional data analysis, Biostatistics, Neural networks, Network analysis, Machine learning, Computational neuroscience, Data science, Bayesian analysis.	
EDUCATION	<p>Simon Fraser University, Burnaby, B.C., Canada</p> <p>Ph.D. Candidate, Statistics, 2017–2023 (Parental leave: 2020–2021)</p> <ul style="list-style-type: none">• Thesis: <i>Machine Learning in Functional Data Analysis</i>• Supervisor: Dr. Jiguo Cao <p>Simon Fraser University, Burnaby, B.C., Canada</p> <p>M.S., Statistics, 2015–2017</p> <ul style="list-style-type: none">• Thesis: <i>Modeling Neural Spike Trains with Particle Markov Chain Monte Carlo and Smoothing</i>• Supervisor: Dr. Jiguo Cao and Dr. Michelle Zhou <p>Simon Fraser University, Burnaby, B.C., Canada</p> <p>B.S., Statistics, August, 2015</p>	
PUBLICATION	<ul style="list-style-type: none">• Wang, H. and Cao, J., 2022, “Nonlinear Prediction for Functional Time Series”, in revision for <i>Environmetrics</i>.• Wang, H. and Cao, J., 2022, “pCODE: Estimating Parameters of ODE Models”, in revision for <i>The R Journal</i>.• Wang, H. and Cao, J., 2021, “Functional Nonlinear Learning”, submitted to <i>Journal of Computational and Graphical Statistics</i>.• Wang, H. and Cao, J., 2021, “Functional Principal Component Analysis for Multiple Variables on Different Riemannian Manifolds”, in revision for <i>Journal of Agricultural, Biological and Environmental Statistics</i>.• Wang, H. and Cao, J., 2020, “Estimating Time-varying Directed Neural Networks”, <i>Statistics and Computing</i>, 20, 1209–1220.• Ithurbide, M., Wang, H., Fassier, T., Li, Z., Pires, J., Larsen, T., Cao, J., Rupp, R., and Friggens, N., 2022, “Multivariate analysis of milk metabolite measures shows potential for deriving new resilience phenotypes”, submitted to <i>Journal of Dairy Science</i>.	
PROJECT	<ul style="list-style-type: none">• Wang, H. and Cao, J., 2020, “pCODE: a R package for estimating ODE models” available on CRAN, GITHUB, and Rshiny.	

INVITED
CONFERENCE
TALKS AND
PRESENTATIONS

- Wang, H. and Cao, J., “Functional Nonlinear Learning”, 2022 International Workshop on Complex Functional Data Analysis, Shanghai, China, 2022.
- Wang, H. and Cao, J., “Functional Nonlinear Learning”, 2022 Annual Meeting of the Statistical Society of Canada, Online, 2022.
- Wang, H. and Cao, J., “Functional Nonlinear Learning”, 2021 Canada Statistical Science Institute showcase, Online, 2021.
- Wang, H. and Cao, J., “Estimating time-varying directed neural networks”, 2019 International Chinese Statistical Association conference, Tianjin, China, 2019.

TEACHING

- *Simon Fraser University: Teaching Assistant 2017-2022*
 - Statistics Workshop.
 - STAT 100: Chance and Data Analysis
 - STAT 201: Statistics for the Life Sciences
 - STAT 203: Introduction to Statistics for the Social Sciences
 - STAT 270: Introduction to Probability and Statistics
 - STAT 305: Introduction to Biostatistical Methods for Health Sciences
 - STAT 485: Applied Time Series Analysis
- *Tianjin University: 2021 Summer*
 - Online course on functional data analysis and parameter estimation of differential equations.

EMPLOYMENT

- **Graduate Teaching Assistant**, *Simon Fraser University*, 2017-Current.
- **Graduate Research Assistant**, *Simon Fraser University*, 2017-Current.
- **Data Scientist Intern**, *Pacific Blue Cross*, Burnaby, B.C., Canada. 2017–2018

AWARDS

- PhD Graduate Fellowship, Simon Fraser University, 2021-2022
- PhD Graduate Fellowship, Simon Fraser University, 2020-2021
- PhD Graduate Fellowship, Simon Fraser University, 2019-2010
- Graduate and Postdoctoral Fellowship, Simon Fraser University, 2019-2020
- PhD Graduate Fellowship, Simon Fraser University, 2018-2019
- PhD Graduate Fellowship, Simon Fraser University, 2017-2018