

## Haixu Wang

---

CONTACT INFORMATION	Address: 8888 University Drive Burnaby, B.C., V5A 1S6 Github: <a href="https://github.com/alex-haixuw">github.com/alex-haixuw</a> Website: <a href="https://haixu-alex.me">haixu-alex.me</a>	604-376-6267 Email: <a href="mailto:haixuw@sfu.ca">haixuw@sfu.ca</a>
RESEARCH INTERESTS	Functional data analysis, Biostatistics, Neural networks, Network analysis, Machine learning, Computational neuroscience, Data science, Bayesian analysis.	
EDUCATION	<b>Simon Fraser University</b> , Burnaby, B.C., Canada  Ph.D. Candidate, <b>Statistics</b> , 2017–2023 (Parental leave: 2020–2021) <ul style="list-style-type: none"><li>• Thesis: <i>Machine Learning in Functional Data Analysis</i></li><li>• Supervisor: Dr. Jiguo Cao</li></ul> <b>Simon Fraser University</b> , Burnaby, B.C., Canada  M.S., <b>Statistics</b> , 2015–2017 <ul style="list-style-type: none"><li>• Thesis: <i>Modeling Neural Spike Trains with Particle Markov Chain Monte Carlo and Smoothing</i></li><li>• Supervisor: Dr. Jiguo Cao and Dr. Michelle Zhou</li></ul> <b>Simon Fraser University</b> , Burnaby, B.C., Canada  B.S., <b>Statistics</b> , August, 2015	
PUBLICATION	<ul style="list-style-type: none"><li>• Wang, H. and Cao, J., 2022, “Nonlinear Prediction for Functional Time Series”, in revision for <i>Environmetrics</i>.</li><li>• Wang, H. and Cao, J., 2022, “pCODE: Estimating Parameters of ODE Models”, in revision for <i>The R Journal</i>.</li><li>• Wang, H. and Cao, J., 2021, “Functional Nonlinear Learning”, submitted to <i>Journal of Computational and Graphical Statistics</i>.</li><li>• 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>.</li><li>• Wang, H. and Cao, J., 2020, “Estimating Time-varying Directed Neural Networks”, <i>Statistics and Computing</i>, <b>20</b>, 1209–1220.</li><li>• 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>.</li></ul>	
PROJECT	<ul style="list-style-type: none"><li>• Wang, H. and Cao, J., 2020, “pCODE: a R package for estimating ODE models” available on <a href="#">CRAN</a>, <a href="#">GITHUB</a>, and <a href="#">Rshiny</a>.</li></ul>	

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