

Xiaochuan Shi – Curriculum Vitæ

CONTACT INFORMATION	700 University Ave, 9th Floor Toronto, ON M5G 1X6, Canada	Tel: +1 (437) 987-0279 Website: <a href="http://www.xiaochuanshi.github.io">http://www.xiaochuanshi.github.io</a> Email: <a href="mailto:xiaochuan.shi@mail.utoronto.ca">xiaochuan.shi@mail.utoronto.ca</a>
RESEARCH INTERESTS	<b>Areas:</b> causal inference, semiparametric theory, longitudinal analysis. My research advances causal inference methods for complex observational data, particularly under unmeasured confounding. By leveraging structured assumptions in high-dimensional or longitudinal outcomes, I develop approaches that yield more reliable, interpretable, and actionable causal estimates.	
EDUCATION	<b>University of Toronto</b> <i>Department of Statistical Science</i> Ph.D., Supervisors: Linbo Wang and Dehan Kong 2021/09 – Present	
	<b>University of Washington</b> <i>Department of Statistical Science</i> MSc, Supervisor: Amy Willis GPA: 3.96/4.00 Courses: Statistical Inference & Learning, Advanced Regression Methods 2019/09 – 2021/06	
	<b>University of California, Berkeley</b> <i>Department of Statistics</i> Exchange Student Courses: Time Series, Linear Model, Principles & Techniques of Data Science 2018/01 – 2018/05	
	<b>Nanjing University</b> <i>School of Mathematics</i> BASc, Supervisor: Hui Qu GPA: 3.88/4.00, Rank: 10/78 Thesis: Panel-based Autoregressive Model for Forecasting Realized Volatility Outstanding Graduate in Jiangsu, NJU Outstanding Scholarship (top 5%) 2015/09 – 2019/06	
PROFESSIONAL EXPERIENCE	<b>Emory University</b> , Atlanta, GA Research Intern at <i>Biostatistics and Bioinformatics Lab</i> Advisor: <i>Steve Qin</i> Research Area: Machine Learning for Genetics 2023/05 – 2023/07	
PREPRINT & UNDER REVIEW	[A1] <b>Xiaochuan Shi</b> , Dehan Kong, Linbo Wang. Longitudinal Treatment Effects under Unmeasured Confounding, 2025. [A2] <b>Xiaochuan Shi</b> , Amy Willis. Removing sample-to-sample cross-contamination in high throughput sequencing data. Major Revision in <i>Journal of Applied Statistics</i> , 2024.	
PUBLICATIONS	[J1] <b>Xiaochuan Shi</b> , Dehan Kong, Linbo Wang, Simultaneous Estimation of Multiple Treatment Effects from Observational Studies. <i>Journal of Computational and Graphical Statistics</i> , 2024. <a href="https://doi.org/10.1080/10618600.2024.2449074">https://doi.org/10.1080/10618600.2024.2449074</a>	

[J2] Yanting Huang, Xiaobo Sun, Huige Jiang, Shaojun Yu, Chloe Robins, Matthew J Armstrong, Ronghua Li, Zhen Mei, **Xiaochuan Shi**, Ekaterina Sergeevna Gerasimov, Philip L De Jager, David A Bennett, Aliza P Wingo, Peng Jin, Thomas S Wingo, Zhaohui S Qin. A machine learning approach to brain epigenetic analysis reveals kinases associated with Alzheimer’s disease. *Nature Communications*, 12.1: 4472, 2021. <https://doi.org/10.1038/s41467-021-24710-8>

## TEACHING

### Teaching Assistant, University of Toronto

- STA347: Probability 2024 Winter
- STA314: Statistical Methods for Machine Learning 2024 Fall
- STA347: Probability 2023 Winter
- STA257: Probability and Statistics 2023 Fall
- STA347: Probability 2022 Winter
- STA314: Statistical Methods for Machine Learning 2022 Fall
- STA303: Methods of Data Analysis 2021 Winter
- STA257: Probability and Statistics 2021 Fall

### Drop-in Tutor at Statistics Study Center, University of Washington

2020

## AWARDS & HONORS

- Connaught International Scholarship 2021 – 2025
- ASA Student and Early Career Travel Fund 2025
- Nanjing University Outstanding Scholarship (top 5%) 2018
- Hainan Airlines Scholarship 2017

## PROFESSIONAL SERVICE

### Reviewer:

- Conference on Uncertainty in Artificial Intelligence (UAI)