

Facheng Yu

Contact	Email: fachengyu@uw.edu Website: https://fachengyu.github.io/	
Education	University of Washington - Seattle, USA	Jun. 2025 - Present
	Ph.D. in Statistics (Expected) Advisors: Zaid Harchaoui, Alex Luedtke	
	University of Washington - Seattle, USA	Mar. 2025
	M.S. in Statistics Coursework: Statistical Inference, Statistical Learning, Advanced Probability, Special Topic in Advanced Biostatistics, Advanced Regression Methods	
	Wuhan University - Wuhan, China	Jun. 2023
	B.S. in Mathematics and Applied Mathematics Thesis: Concentration Inequalities with Applications	
	Coursework: Stochastic Process, Probability, Real Analysis, Functional Analysis, Mathematical Analysis, Differential Equations, Advanced Algebra	
Preprints	Stochastic Gradients Under Nuisances. Facheng Yu , Ronak Mehta, Alex Luedtke, Zaid Harchaoui. <i>Available at arXiv:2508.20326.</i>	
	Data Integration Using Covariate Summaries from External Sources. Facheng Yu , Yuqian Zhang. <i>Available at arXiv:2411.15691.</i>	
Research Experience	Graduate Research Assistant	Jun. 2024 - Present
	University of Washington - Seattle, USA Advisors: Zaid Harchaoui, Alex Luedtke Project: Stochastic Gradients Under Nuisances	
	Undergraduate Research Assistant	May 2023 - Nov. 2024
	Renmin University of China - Beijing, China Advisor: Yuqian Zhang Project: Data Integration Using Covariate Summaries from External Sources	
	Undergraduate Research Assistant	Apr. 2021 - Oct. 2022
	Wuhan University - Wuhan, China Advisors: Weixing Zhang, Yidong Lou Project: Improved GNSS-PWV Three-Factor-Threshold Rainfall Forecasting Method <i>Accepted by Geomatics and Information Science of Wuhan University</i>	
Activities	Genome Sciences Hackathon	Sep. 2023
	Noble Lab, University of Washington - Seattle, USA Advisors: Gang Li, William Stafford Noble Project: Matching Cells between Single-Cell Hi-C and RNA-Sequencing Datasets <ul style="list-style-type: none">Evaluated existing software tools for cross-modality cell matching using HiRES data.	

	<p>Online Reading Group Aug. - Dec. 2022 University of North Carolina at Chapel Hill - Chapel Hill, USA Advisor: Guanting Chen Project: Blackwell's Approachability and Online Learning</p> <ul style="list-style-type: none"> Studied classic literature on online learning and Blackwell's approachability and finished a report on Blackwell's approachability and its applications.
	<p>Online Summer School Jul. - Aug. 2021 University of Cambridge - Cambridge, UK Advisor: Pietro Liò Project: Video Summarization with Flexible Multi-Agent Reinforcement Learning</p> <ul style="list-style-type: none"> Trained a convolutional neural network with shared information to generate policies based on explored video frames.
	<p>Online Winter School Jan. - Feb. 2021 University of Cambridge - Cambridge, UK Instructor: Guillaume Hennequin Course: Balanced Network Models of Cortical Circuits</p> <ul style="list-style-type: none"> Studied models of simulating the interactions of the excitatory, the inhibitory, and the external neuron population.
	<p>Online Summer School Jun. - Aug. 2020 Yau Mathematical Sciences Center, Tsinghua University - Beijing, China Instructor: Xiaoming Zhang Course: Examples and Exercises of Big Data Analysis</p> <ul style="list-style-type: none"> Studied machine learning algorithms with industrial applications.
Talk	<p>Data Integration Using Covariate Summaries from External Sources</p> <ul style="list-style-type: none"> Presented at the UW Causal Reading Group, Dec. 2024.
Teaching	<p>Teaching Assistant - University of Washington</p> <ul style="list-style-type: none"> STAT 499: Undergraduate Research, Winter 2024. <p>Grader - University of Washington</p> <ul style="list-style-type: none"> STAT 396: Finite Markov Chains and Monte-Carlo Methods, Spring 2024.
Services	<p>Volunteer for American Causal Inference Conference, May 2024. Mentor of American Statistical Association DataFest, Mar. 2024.</p>
Awards	<p>Institute for Foundations of Data Science (IFDS) Scholarship, Fall 2024. Third Prize in Asia and Pacific Mathematical Contest in Modeling, 2022. Third Prize in the Chinese Mathematics Competition, 2020, 2021. Excellent Student Scholarship, Wuhan University, 2020, 2021, 2022.</p>
Skills	<p>Programming: Python, R, C++ Language: English (fluent), Chinese (native)</p>