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Research interests High-dimensional statistics, selective inference, and their application in ge-

nomics

Education University of Washington Seattle, WA

PhD in Biostatistics September 2023 – Present

Yale University New Haven, CT

MS in Biostatistics September 2021 – May 2023

Fudan University Shanghai, China

BS in Biotechnology 2017 September – June 2021

Publications Cell-type-specific co-expression inference from single cell RNA-

sequencing data.

Chang Su, Zichun Xu, Xinning Shan, Biao Cai, Jingfei Zhang, and Hongyu

Zhao.

Nature Communications 14.1 (2023): 4846.

Probability-of-Decision interval 3+3 (PoD-i3+3) Design for Phase I Dose

Finding Trials with Late-onset Toxicity.

Zichun Xu and Xiaolei Lin.

Statistical Methods in Medical Research, 31.3 (2022): 534-548.

Research experience University of Washington

Independent Research (Advisor: Daniela Witten, Ali Shojaie) February 2024 -

Present

Semi-supervised learning; prediction-powered inference.

University of Washington

Research Assistant (Advisor: Daniela Witten) October 2023 – Present

Selective inference with randomized response

Fred Hutchinson Cancer Research Center

Research Assistant (Advisor: Jing Ma)

September 2023 – Present

Differential graphical model for microbiome data.

Yale University

Research Assistant (Advisor: Hongyu Zhao, Jingfei Zhang) January 2022 – May 2023

Estimation and inference of gene co-expression network for single-cell RNA-sequencing data; high-dimensional covariance regression with sparsity.

Fudan University

Research Assistant (Advisor: Xiaolei Lin) September 2020 – June 2021 Statistical methods for phase I clinical trials with missing data.

Honors and scholarships

Dr. Colin White Memorial Scholarship (Yale School of Public Health) 2023 Xinze Life Science Scholarship (Fudan University) 2018 & 2020 Outstanding Student Scholarship (Fudan University) 2019

Skills **Programming**

Proficient in: R (& R Shiny), Python, LaTeX.

Familiar with: MATLAB, SQL, Linux.