## Zichun Xu

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Phone: (203) 909-8683

Research interests

Education

Publications

## Research experience

High-dimensional statistics, selective inference, and their application in genomics

University of Washington
PhD in Biostatistics

Yale University
MS in Biostatistics

Fudan University
BS in Biotechnology

Cell-type-specific co-expression inference from single cell RNAsequencing 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.

## 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 RNAsequencing 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.
$\begin{array}{llr}\text { Honors and } & \text { Dr. Colin White Memorial Scholarship (Yale School of Public Health) } & 2023 \\ \text { scholarships } & \text { Xinze Life Science Scholarship (Fudan University) } & 2018 \text { \& } 2020 \\ & \text { Outstanding Student Scholarship (Fudan University) } & 2019\end{array}$

Skills Programming
Proficient in: R (\& R Shiny), Python, LaTeX.
Familiar with: MATLAB, SQL, Linux.

