

DANIEL XIANG

Email: dxiang@uchicago.edu

EDUCATION

PhD in Statistics, *University of Chicago*

9/2017 – 5/2023 (expected).

Advisors: Chao Gao and Peter McCullagh

ScB in Applied Mathematics, *Brown University*

9/2013 – 5/2017.

Advisor: Bjorn Sandstede

PREPRINTS

Xiang, D., Soloff, J. A., & Fithian, W. (2022+). A frequentist perspective on the local false discovery rate. [working draft](#).

Soloff, J. A., Xiang, D., & Fithian, W. (2022). The edge of discovery: Controlling the local false discovery rate at the margin. *Submitted*. [arxiv:2207.07299](#)

Xiang, D., Gao, C., & Samworth, R. (2022+). Changepoint detection boundaries. [working draft](#).

Xiang, D. & McCullagh, P. (2020). Permanent Graphs. [arxiv:2009.10902](#)

RESEARCH INTERESTS

Multiple hypothesis testing, Selective inference

AWARDS

First place team, Citadel Datathon at UC Berkeley, Fall 2017

Graduated magna cum laude (highest Latin honor offered) from Brown, Spring 2017.

Rohn Truell Prize in applied math for achieving special distinction at Brown, Spring 2017.

Phi Beta Kappa, elected junior year, Spring 2016.

TEACHING EXPERIENCE

UChicago

2017 – 2022.

Statistical Models and Methods (Instructor, Spring 2022 and Fall 2022).

PhD qualifying exam preparation (Coach, Summer 2022).

Statistical Theory and Methods (TA, Winter 2021), taught by Rina Barber.

Introduction to Bayesian Data Analysis (TA, Spring 2021), taught by Fei Liu.

Statistical Methods and Applications (Instructor, Spring 2020) co-taught with Peter McCullagh.

Brown University

2014 – 2015.

Statistical Inference I (TA, Summer 2017), taught by Michael Snarski.

Machine Learning (TA, Spring 2017), taught by Pedro Felzenszwalb.

Ordinary Differential Equations (TA, Fall 2015), taught by Bjorn Sandstede.

GRADUATE-LEVEL COURSEWORK

Statistical consulting; applied statistics; theoretical statistics; probability theory; statistical learning theory; topics in selective inference; Bayesian nonparametrics; convex optimization; recent applications of probability and statistics; stochastic processes; measure theory; functional analysis

TALKS

1. A frequentist perspective on the local false discovery rate. *12th International Conference on Multiple Comparison Procedures*, Aug. 2022.