Xu Zhuang

Graduate Student

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EDUCATION

- **University of California, Irvine**
  Ph.D., in Mathematics — *September 2022-present*

- **Jilin University**
  B.S, in Mathematics — *August 2018-June 2022*

RESEARCH INTERESTS

Coding theory and Arithmetic geometry, Arithmetic Statistics, Analytic number theory

SKILLS

- Programming Languages: Python, LaTeX, SageMath

- Frameworks: scikit-learn, TensorFlow, Keras

- Data Analysis Tools: Pandas, NumPy, Matplotlib

PROFESSIONAL DEVELOPMENT

- Erdős Data Science Bootcamp(September 2024 - present)

  – Key topics: Data Cleaning, Regression, Inferential Statistics, Time Series Analysis, Neural Networks, and Ensemble Learning.

  – Capstone Project: Predicting Price Trends for Financial Assets (In Progress) using regression and time-series models (ARIMA, RNN, LSTM).

HONORS AND AWARDS

- Tang Aoqing Honors Program in Basic Science(2018-2022)

- First Prize-National High School Mathematics League(2016)

Certificates

- Coursera: Machine Learning Specialization
  https://www.coursera.org/account/accomplishments/specialization/MJVU0CEJSJH8

MENTORING

- Directed Reading Project(2023 Winter): Probabilistic methods in Combinatorics(Xingjian Wang)

- Directed Reading Project(2024 Fall): Random Matrics(Collin Cheung)

TEACHING

- 2023 Winter: Grader for Linear Algebra II(MATH 121B), Introduction to Probability I(MATH 131A)

- 2023 Spring : Grader for Introduction to Abstract Math(MATH 13), Linear Algebra I(MATH 121A), Introduction to Probability I(MATH 131A)

- 2024 Fall and 2024 Winter: MATH 2B

- 2024 Spring: MATH 2D

- 2024 Fall: Real analysis(Grad)

PREPRINTS

1 The Jacobian of a Sixth-Root-of-Unity Matroid (With Matthew Baker and Changxin Ding). Submitted for publication. https://arxiv.org/abs/2308.11760