

Yijin Ni (she/her)

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Research Interests

Deep learning theory, kernel methods, hypothesis testing, dimension reduction, generative models, direct preference learning, and fairness representation learning.

Education

- Georgia Institute of Technology**, Ph.D. in Statistics, GPA: 3.9/4.0 January 2021 – Present
- H. Milton Stewart School of Industrial and Systems Engineering (ISyE);
 - Supervisor: Xiaoming Huo;
 - Minor: Operations Research.
- University of Science and Technology of China**, Research Assistant July 2020 – August 2021
- Supervisor: Canhong Wen.
- University of Science and Technology of China**, B.Sc. in Statistics, GPA: 3.9/4.3 August 2016 – June 2020
- School of Management.

Publications

- Simultaneous Dimension Reduction and Variable Selection for Multinomial Logistic Regression** May 2023
- Canhong Wen, Zhenduo Li, Ruipeng Dong, *Yijin Ni*, Wenliang Pan.
Inform's Journal on Computing, 35.5 (2023): 1044-1060.
- Sequential and Simultaneous Distance-based Dimension Reduction** December 2025
- Yijin Ni*, Chuanping Yu, Xiaoming Huo.
Journal of Nonparametric Statistics (2025): 1-30.

Preprints

- A Uniform Concentration Inequality for Kernel-Based Two-Sample Statistics** 2025+
- Yijin Ni*, Xiaoming Huo.
- Kernel-based Equalized Odds: A Quantification of Accuracy-Fairness Trade-off in Fair Representation Learning** 2025+
- Yijin Ni*, Xiaoming Huo.

Honors and Awards

- Graduate Student Travel Award, Georgia Tech 2023
- Mentoring service award for SURE program, Georgia Tech 2022
- Stewart Fellowship, Georgia Tech 2021
- Outstanding Student Scholarship, University of Science and Technology of China 2017-2020

Talks

- INFORMS Annual Meeting 2024** Seattle, WA, October 2024
- Talk: "A Concentration Inequality for Maximum Mean Discrepancy (MMD)-based Statistics and Its Application in Generative Models".
- Joint Statistical Meetings 2024** Portland, OR, August 2024
- Talk: "A Concentration Inequality for Maximum Mean Discrepancy (MMD)-based Statistics and Its Application in Generative Models".
- IISE Annual Conference and Expo 2024** Montreal, Canada, May 2024

Talk: “A Concentration Inequality for Maximum Mean Discrepancy (MMD)-based Statistics and Its Application in Generative Models”.

Georgia Statistics Day

Atlanta, GA, October 2022

Poster: “Sequential and Simultaneous Distance-based Dimension Reduction”.

Teaching Experience

Instructor

Fall 2023

ISYE-6501: Intro to Analytics Modeling

Graduate Teaching Assistant

Spring 2023

ISYE-6402-A: Time Series Analysis

Mentor

Summer 2022

Summer Undergraduate Research Experience (SURE) Program

Service

Reviewer: NeurIPS 2025 and 2026, AISTATS 2025.

Outreach: Exam Writer and Grader, AP Statistics competition, Georgia Tech, 2024.