# Niuniu Zhang

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## Education

Exp. 2029 UCLA, PhD in Operations Management (DOTM), Los Angeles, CA
May 2023 University of Pennsylvania, MA Applied Mathematics (AMCS), Philadelphia, PA
May 2021 New York University, MA Visual Arts Administration, New York, NY
June 2019 Union College, BS Mathematics and French, Minor in Visual Arts, Schenectady, NY

## Articles

### Working Papers

1. "Too Noisy to Collude? Algorithmic Collusion Under Laplacian Noise", Zhang, N. (2025). Working Paper.
   - Invited policy article at ProMarket, Stigler Center at UChicago Booth, Dec. 2025.
2. "Fairness Behind the Veil: Eliciting Social Preferences from Large Language Models", Dong, Y., M. Ma, N. Trigo, and N. Zhang (2025). In Preparation.

### Submitted / Under Review / Under Revision

3. "Economics of NFTs: The Value of Creator Royalties", Falk, B., B. Gu, G. Tsoukalas, and N. Zhang (2022).
   **Information Systems Research**, Major Revision, under revision for resubmission.

### Published/Accepted

4. "Can AI Detect Wash Trading? Evidence from NFTs", Falk, B., G. Tsoukalas, and N. Zhang (2025).
   **Research Policy**, Forthcoming.

### Theses

5. "Being An Artist Is Hard: Navigating the Dynamics of Money and Power", Zhang, N. (2021).
   **Master's Thesis**, Visual Arts Administration, New York University.

## Conferences / Workshops

### Economics of NFTs [3]

Oct 2025 INFORMS Annual Meeting, Atlanta, GA. [slides]
Oct 2024 INFORMS Conference on Information Systems and Technology, Seattle, WA. [slides]
Mar 2023 Crypto & Blockchain Economics Research Forum Symposium, Virtual (co-author*). [video]

Fairness Behind the Veil [2]

July 2025 EC'25 Workshop on Information Economics x Large Language Models, Stanford, CA. [poster]

## Research Experience

Anderson School of Management, UCLA, Los Angeles, CA

2024–pres. PhD Researcher, Decisions, Operations, and Technology Management (DOTM) Area
Advised by Auyon Siddiq
I study the strategic behavior of economic agents in algorithmic settings, with topics including collusion and fairness. See [1, 2]

University of Pennsylvania, Philadelphia, PA

2022-pres. Research Collaborator, Crypto and Society Lab (CASL)
Advised by Brett Hemenway Falk and Gerry Tsoukalas
I conduct empirical analysis of blockchain data and develop economic models to fit the data, with topics including NFT royalties, wash trading, and memecoin. See [4, 3].

2023-2024 Research Assistant, Department of History
Advised by Maylis Avaro and Marc Flandreau
I analyzed Ethereum-based trading platforms, e.g., Uniswap and Curve, to investigate potential ripple effects of the 2022 Terra market crash.

Steinhardt School, New York University, New York, NY

2020-2021 Master's Thesis, Department of Art and Art Professions
Advised by Amy Whitaker
I investigated the economic challenges artists face and the transformative potential of blockchain for creative careers. See [5].

## Teaching Experience

Anderson School of Management, UCLA, Los Angeles, CA

Win. 2026 Teaching Assistant, MGMTMSA 403 Optimization, MSBA
Supervised by Auyon Siddiq

Sum. 2025 Teaching Assistant, MGMTGEX402 Data Analysis and Management Decisions, EMBA
Supervised by Elisa Long

Penn Engineering, University of Pennsylvania, Philadelphia, PA

Sp. 2024 Teaching Assistant, EAS 5830 Blockchains, Graduate
Supervised by Brett Hemenway Falk

Sp. & F. 2022 Teaching Assistant, CIS 5150 Fundamentals of Linear Algebra and Optimization, Graduate
Supervised by Jean Gallier

## Awards & Honors

2024-2029 Anderson School of Management PhD Fellowship, UCLA
2019 summa cum laude, Union College
2019 Phi Beta Kappa Inductee, Academic Honor Society
2019 Departmental Honors in Mathematics and in French, Union College
2019 Pi Delta Phi Inductee, French Honor Society

## Technical Skills

Python, C, C++, Bash, Mathematica, MATLAB, R, LaTeX

## Theoretical Foundations

### Mathematics

Complex Analysis, Real Analysis and Measure Theory, Functional Analysis, Probability Theory, Stochastic Processes, Advanced Algebra, Commutative Algebra, and Representation Theory

– Passed the Applied Math written preliminary exam in Analysis, Algebra, and Probability at the University of Pennsylvania.

### Computer Science

Theory of Computation, Cryptography