

Niuniu Zhang

Email: niuniu.zhang.phd [at] anderson.ucla.edu

URL: niuniuzhang.com

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Education

Exp. 2029

May 2023

May 2021

June 2019

UCLA, PhD in Operations Management (DOTM), Los Angeles, CA

University of Pennsylvania, MA Applied Mathematics (AMCS), Philadelphia, PA

New York University, MA Visual Arts Administration, New York, NY

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.
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, cited in peer-reviewed research (e.g., *Computers in Human Behavior*, 2025)

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 Prof. [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 Prof. [Brett Hemenway Falk](#) and Prof. [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 Prof. [Maylis Avaro](#) and Prof. [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 Prof. [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

- Sum. 2025 Teaching Assistant, [GEMBA 402 Data Analysis and Management Decisions](#), Executive MBA
Supervised by Prof. [Elisa Long](#)

PENN ENGINEERING, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA

- Sp. 2024 Teaching Assistant, [EAS 5830 Blockchains](#), Graduate
Supervised by Prof. [Brett Hemenway Falk](#)
- Sp. & F. 2022 Teaching Assistant, [CIS 5150 Fundamentals of Linear Algebra and Optimization](#), Graduate
Supervised by Prof. [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, L^AT_EX

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