

Niuniu Zhang

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Education

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

UNDER REVIEW / WORKING PAPERS

1. [“NFT Wash Trading: Direct vs. Indirect Estimation”](#), Falk, B., Tsoukalas, G., and Zhang, N. (2023)
2. [“Economics of NFTs: The Value of Creator Royalties”](#), Falk, B., Gu, B., Tsoukalas, G., and Zhang, N. (2022)
 - selected and presented at March 2023 Symposium of Crypto & Blockchain Economics Research Forum (CBER). [\[video\]](#)

THESES

3. [“Being An Artist Is Hard: Navigating the Dynamics of Money and Power”](#), Zhang, N. (2021)
4. [“Category Theory and Universal Property”](#), Zhang, N. (2019)
5. [“La Nouvelle Vague est-elle un cinéma existentialiste français?”](#), Zhang, N. (2019)

Research Experience

PENN ENGINEERING, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA

Su. 2022-pres. Research Assistant, [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, topics include NFT royalties and wash trading. See [\[1,2\]](#).

PENN ART & SCIENCE, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA

F. 2023-pres. Research Assistant, [Department of History](#)
Advised by Dr. [Maylis Avaro](#) and Prof. [Marc Flandreau](#)
I analyze Ethereum decentralized exchange platforms to investigate potential contagion effects during the Terra market crash in 2022.

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 [\[3\]](#).

Teaching Experience

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 515 Fundamentals of Linear Algebra and Optimization](#), Graduate

Supervised by Prof. [Jean Gallier](#)

Awards & Honors

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