Niuniu Zhang

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Last updated: July 11, 2024

Education

May 2023 May 2021 June 2019 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

Under Review / Working Papers

- I. "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

2022-2024

Research Assistant, Crypto and Society Lab (CASL)

Advised by Prof. Brett Hemenway Falk and Prof. Gerry Tsoukalas

I conducted empirical analysis of blockchain data and developed economic models to fit the data, with topics including NFT royalties and wash trading. See [1,2].

Penn Art & Science, University of Pennsylvania, Philadelphia, PA

2023-2024

Research Assistant, Department of History

Advised by Dr. 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 [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 5150 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