CHENGHAN ZHOU

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EDUCATION

Stanford University, Stanford, California — Sep. 2024 - Present
PhD in Computer Science — GPA: 4.0/4.0

Princeton University, Princeton, New Jersey — Aug. 2022 - May 2024
M.S.E. in Computer Science — GPA: 4.0/4.0

University of Virginia, Charlottesville, Virginia — Aug. 2017 - Dec. 2020
B.A. in Computer Science & Cognitive Science — GPA: 3.97/4.0

RESEARCH EXPERIENCE

Stanford University, CS Theory Group — Sep. 2022 - Jan. 2025
- Advisor: Professor Ashish Goel.
- Research Topics: Social Choice in Decentralized Finance.

Princeton University, Theory of Computation Group — Sep. 2022 - Jan. 2025
- Advisor: Professor Matt Weinberg.
- Research Topics: Mechanism Design in Cryptocurrency.

Princeton University, Theory of Computation Group — Dec. 2022 - Present
- Research Advisor: Professor Mark Braverman.
- Research Topics: VCG mechanism for two-sided matching.

Shanghai University of Finance and Economics, Institute for Theoretical Computer Science — Sep. 2021 - Jun. 2022
- Advisor: Professor Pinyan Lu.
- Research Topics: Combinatorial auctions with interdependent valuations.

University of Virginia, Strategic Intelligence for Machine Agents Lab — Jan. 2019 - Jul. 2022
- Advisor: Professor Haifeng Xu.
- Research Topics: Algorithmic information design in congestion games and security games for social welfare maximization.

IN SUBMISSION

(α - β) *Mark Braverman, Jingyi Liu, Eric Xue, Chenghan Zhou*, **Hardness of Approximate Hylland-Zeckhauser Equilibria**
(α - β) *Amit Levy, S. Matthew Weinberg, Chenghan Zhou*, **Analyzing the Impact of Decentralization on Users**

PUBLICATIONS

(α - β) *Linda Cai, Jingyi Liu, S. Matthew Weinberg, Chenghan Zhou*, **Profitable Manipulations of Cryptographic Self-Selection are Statistically Detectable**, In Proc. of the 6th International Conference on Advances in Financial Technologies (AFT 2024) [arxiv].

(α - β) *Pinyan Lu, Enze Sun, Chenghan Zhou*, **Better Approximation for Interdependent SOS Valuations**, In Proc. of the 18th Conference on Web and Internet Economics (WINE 2022) [arxiv].

Chenghan Zhou, Andrew Spivey, Haifeng Xu, Thanh H. Nguyen, **Information Design for Multiple Uncoordinated Defenders: Work Less, Pay Off**, In Proc. of the Conference on Uncertainty in Artificial Intelligence (UAI 2022), also accepted to MDPI Games Journal.

Chenghan Zhou, Thanh H. Nguyen, Haifeng Xu, **Algorithmic Information Design in Multi-Player Games: Possibility and Limits in Singleton Congestion**, In Proc. of the 23rd ACM Conference on Economics and Computation (EC 2022) [arxiv].

SERVICE

Program Committee for **Advances in Financial Technologies 2023 (**AFT'23**).**
Conference Referee for **Innovations in Theoretical Computer Science 2024 (**ITCS'24**), ACM Transactions on Economics and Computation.**

AWARDS

CRA Undergraduate Research Awards, *Honorable Mentions* — 2020
Stanford University School of Engineering Fellowship — 2024 - 2025

TEACHING

Economics and Computation (COS445), *teaching assistant & preceptor* — Princeton 2023S, 2024S
Theory of Computation (COS487), *teaching assistant* — Princeton 2023F
Theory of Algorithms (COS423), *teaching assistant & preceptor* — Princeton 2022F
Artificial Intelligence (CS4710), *teaching assistant* — UVA 2020S

Computer Architecture (CS3330), *teaching assistant* UVA 2019F
Algorithm (CS4102), *teaching assistant* UVA 2019F

INDUSTRIAL EXPERIENCE

NetEase Game Department, *Algorithm Engineer Intern* Jun. 2021 - Aug. 2021
Google LLC, Pigweed Project, *Software Engineer Intern* May 2020 - Aug. 2020