

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. 2024 - Present
• 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

- *Geoffrey Ramseier, Chenghan Zhou, Ashish Goel, Short Paper: Knapsack Voting for Concurrent Block Proposals*
- (α - β) *Mark Braverman, Jingyi Liu, Eric Xue, Chenghan Zhou, Hardness of Approximate Hylland-Zeckhauser Equilibria*

PUBLICATIONS

- (α - β) *Amit Levy, S. Matthew Weinberg, Chenghan Zhou, Analyzing the Impact of Decentralization on Users*, In Proc. of the 17th Innovations in Theoretical Computer Science (ITCS 2026) [[arxiv](#)].
- (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

Stanford University School of Engineering Fellowship	2024 - 2025
CRA Undergraduate Research Awards, <i>Honorable Mentions</i>	2020

TEACHING

Economics and Computation (COS445), <i>teaching assistant & preceptor</i>	Princeton 2023S, 2024S
Theory of Computation (COS487), <i>teaching assistant</i>	Princeton 2023F

Theory of Algorithms (COS423), *teaching assistant & preceptor*
Artificial Intelligence (CS4710), *teaching assistant*
Computer Architecture (CS3330), *teaching assistant*
Algorithm (CS4102), *teaching assistant*

Princeton 2022F
UVA 2020S
UVA 2019F
UVA 2019F

INDUSTRIAL EXPERIENCE

NetEase Game Department, *Algorithm Engineer Intern*
Google LLC, Pigweed Project, *Software Engineer Intern*

Jun. 2021 - Aug. 2021
May 2020 - Aug. 2020