

Yanchen (Jeff) Jiang

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Research Overview

My research interests lie at the intersection of Computer Science — specifically machine learning and generative AI — and Economics, with a focus on incentives and decision-making. I typically adopt a computational framework to tackle established economic and mechanism design problems, deriving new insights and solutions in previously unexplored settings. Additionally, I integrate considerations of incentives, human behavior, game theory, and multi-agent interactions into Large Language Models and generative AI.

Research Interests: Computational Mechanism Design, Large Language Models and Generative AI, Machine Learning.

Education

Ph.D. Computer Science 2022-2027 (expected)	Harvard University Advisors: Professor David C. Parkes and Professor Yiling Chen
S.M. Computer Science 2024	Harvard University Advisors: Professor David C. Parkes and Professor Yiling Chen
A.B. 2022	Harvard University Major: Computer Science and Mathematics Thesis: <i>Learning to Sell Information</i> Highest Honors in Computer Science and Mathematics, <i>cum laude</i> GPA: 3.89/4.00

Publications and Working Papers

(* indicates equal contribution, α - β indicates alphabetical author order.)

Conference Papers

C2 Tonghan Wang*, Yanchen Jiang*, David C. Parkes. [GemNet: Menu-Based, Strategy-Proof Multi-Bidder Auctions Through Deep Learning](#). *The Twenty-Fifth ACM Conference on Economics and Computation (EC '24)*, Received **Exemplary Paper Award** for the AI track, presented at the Best EC '24 papers plenary session.

C1 Sai Srivatsa Ravindranath*, Yanchen Jiang*, David C. Parkes. [Data Market Design through Deep Learning](#). *Advances in Neural Information Processing Systems 36 (NeurIPS 2023)*.

Workshop and Exhibition papers

W2 (α - β) Constantinos Daskalakis, Ian Gemp, Yanchen Jiang, Renato Paes Leme, Christos Papadimitriou, Georgios Piliouras. [Charting the Shapes of Stories with Game Theory](#). *NeurIPS Creative AI track*, to appear.

W1 Anand Shah*, Kehang Zhu*, Yanchen Jiang, Kerem Dayi, Jeffery Wang, John J. Horton, David C. Parkes. [Evidence from the Synthetic Laboratory: Language Models as Auction Participants](#). *EC'24 contributed poster session; NeurIPS 2024 Workshop on Behavioral Machine Learning*, to appear.

Preprint and Working papers in submission

P1 Tonghan Wang*, Heng Dong*, Yanchen Jiang, David C. Parkes, Milind Tambe. [On Diffusion Models for Multi-Agent Partial Observability: Shared Attractors, Error Bounds, and Composite Flow](#). *In submission*.

Talks and Presentations

GemNet: Menu-Based, Strategy-Proof Multi-Bidder Auctions Through Deep Learning.

The Twenty-Fifth ACM Conference on Economics and Computation (EC'24) *New Haven, CT*
Best EC '24 papers plenary session (Short Presentation)

Main Conference (Long Talk) July, 2024

The Econometric Society 2024 ESIF Economics and AI+ML Meeting *Ithaca, NY*
Mechanism Design session (*Session Chair*, Long Talk) August, 2024

Harvard EconCS seminar
Long Talk Nov, 2024

Data Market Design through Deep Learning.

2023 Conference on Neural Information Processing Systems (NeurIPS 2023) *New Orleans, LA*
Main Conference (Poster Session) Dec, 2023

The Econometric Society 2024 ESIF Economics and AI+ML Meeting *Ithaca, NY*
Pricing in Markets session (Long Talk) August, 2024

Teaching

CS136 (Economics and Computation) Fall, 2023
Head Teaching Assistant, Harvard University

CS136 (Economics and Computation) Fall, 2021
Teaching Assistant, Harvard University

Professional Service

Conferences reviewing activities
NeurIPS (2024), ICLR (2025), AISTATS (2025)