

Yanchen Jiang (Jeff Jiang)

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Research Overview

My research lies at the intersection of computer science—specifically machine learning, deep learning, and generative AI—and economics, focusing on mechanism design, incentives, and decision-making. I employ computational frameworks to tackle established problems in economics and mechanism design, deriving novel insights and solutions in unexplored settings. Additionally, I integrate considerations of incentives, human behavior, game theory, and multi-agent interactions into large language models (LLMs) and generative AI, to enhance their applicability in complex economic environments.

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

Skills:

Proficient: Python (familiar with ML/DL libraries: PyTorch/NumPy/Transformers/Matplotlib/...); \LaTeX ; Experience with LLMs and Language Model APIs (inference-time scaling, supervised fine-tuning, RLHF).

Education

Ph.D. Computer Science 2022-2027 (expected)	Harvard University Advisors: Professor David C. Parkes and Professor Yiling Chen Anticipated Graduation Date: May 2027
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; Minor: Statistics 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.)

Journal Papers, Journal Survey Papers, and Research Letters

J1 Michael J. Curry, Zhou Fan, Yanchen Jiang, Sai Srivatsa Ravindranath, Tonghan Wang, David C. Parkes. [Automated Mechanism Design: A Survey](#). *ACM SIGecom Exchanges*, volume 22, issue 2, March 2025.

Selected Conference Publications

S3 Tonghan Wang, Yanchen Jiang, David C. Parkes. [BundleFlow: Deep Menus for Combinatorial Auctions by Diffusion-Based Optimization](#). *Advances in Neural Information Processing Systems 38 (NeurIPS 2025)*. To appear.

S2 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 (ACM EC '24)*, Received **Exemplary Paper Award** for the AI track (*awarded to the top paper in track*), presented at the Best EC '24 papers plenary session.

S1 Sai Srivatsa Ravindranath*, Yanchen Jiang* , David C. Parkes. [Data Market Design through Deep Learning](#). *Advances in Neural Information Processing Systems 36 (NeurIPS 2023)*.

Other Conference Publications

C1 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](#). *24th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2025)*, Oral Presentation.

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 2024 Creative AI*. Preprint.

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*.

Preprints and Working Papers

P2 Yanchen Jiang, Zhe Feng, Aranyak Mehta. [Incentive-Aligned Multi-Source LLM Summaries](#).

P1 Ermis Soumalias* Yanchen Jiang*, Kehang Zhu*, Michael Curry, Sven Seuken, David C. Parkes. [LLM-Powered Preference Elicitation in Combinatorial Assignment](#).

Research Internships

Google Research

Full-time On-site Student Researcher

Part-time Remote Student Researcher

Mountain View, CA

May - Sep, 2025

Sep 2025 - Jan 2026

Honors

Exemplary Paper Award, for the AI track

The Twenty-Fifth ACM Conference on Economics and Computation (EC '24)

July, 2024

Head Teaching Fellow

Harvard University, CS136 (Economics and Computation)

Fall, 2023

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
<i>The Econometric Society 2024 ESIF Economics and AI+ML Meeting</i>	<i>Ithaca, NY</i>
Mechanism Design session (<i>Session Chair</i> , Long Talk)	August, 2024
<i>Harvard EconCS seminar</i>	
Long Talk	Nov, 2024

Data Market Design through Deep Learning

<i>2023 Conference on Neural Information Processing Systems</i> (NeurIPS 2023)	<i>New Orleans, LA</i>
Main Conference (Poster Session Presentation)	Dec, 2023
<i>The Econometric Society 2024 ESIF Economics and AI+ML Meeting</i>	<i>Ithaca, NY</i>
Pricing in Markets session (Long Talk)	August, 2024

Charting the Shapes of Stories with Game Theory

<i>2024 Conference on Neural Information Processing Systems</i> (NeurIPS 2024)	<i>Vancouver, Canada</i>
Creative AI (Booth Presentation)	Dec, 2024

On Diffusion Models for Multi-Agent Partial Observability: Shared Attractors, Error Bounds, and Composite Flow

<i>24th International Conference on Autonomous Agents and Multiagent Systems</i> (AAMAS 2025)	<i>Detroit, MI</i>
Oral Presentation (Short Talk)	
Poster Session Presentation	May, 2025

Reviewing activities

Journal referee

Econometrica

TMLR

Conference review

NeurIPS (2024) (*Top Reviewers*), ICLR (2025), AISTATS (2025), ICML (2025), NeurIPS (2025) [Main Track, and Creative AI Track], ICLR (2026), AISTATS (2026), AAAI (2026).

Teaching

CS2360R (Topics at the Interface between Computer Science and Economics)	Fall, 2025
Emerging Topics in EconCS and AI	
<i>Teaching Fellow, Harvard University.</i>	Fall, 2025

CS136 (Economics and Computation)	Fall, 2023
<i>Head Teaching Fellow, Harvard University.</i>	

CS136 (Economics and Computation)	Fall, 2021
<i>Teaching Fellow, Harvard University.</i>	