

TEJAS PAGARE

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Research interests: AI + Economics; Multi-Agent AI Systems

EDUCATION

Carnegie Mellon University 2025–2030 (expected)
Ph.D. in Algorithms, Combinatorics and Optimization (ACO), Tepper School of Business
Advisors: Maria-Florina Balcan and Karan Singh

Indian Institute of Technology Bombay 2019–2024
B.Tech. and M.Tech. in Electrical Engineering
Thesis: [Hopf Bifurcation Analysis with Application to Networked Dynamical Systems](#)
Advisors: Vivek Borkar and Konstantin Avrachenkov

PUBLICATIONS ((α) denotes alphabetical author ordering)

(α) Maria-Florina Balcan, **Tejas Pagare**, Karan Singh, “Learning to Price with Persuasion,” *Conference on Neural Information Processing Systems (NeurIPS)*, **Spotlight**, 2026. [arXiv:2608.16699](#).

(α) Dohyun Ahn, Sandeep Juneja, **Tejas Pagare**, Shreyas Samudra, “Data-Driven Estimation of Tail Probabilities under Varying Distributional Assumptions,” *Winter Simulation Conference (WSC)*, Invited Paper, pp. 283–294, 2025. [DOI](#).

Tejas Pagare, Agniv Bandyopadhyay, Sandeep Juneja, “Optimal Algorithms for Bandit Learning in Matching Markets,” *NeurIPS Workshop on Dynamics at the Frontiers of Optimization, Sampling, and Games*, 2025. [OpenReview](#). [arXiv:2509.14466](#).

Tejas Pagare, Avishek Ghosh, “Explore-then-Commit Algorithms for Decentralized Two-Sided Matching Markets,” *IEEE International Symposium on Information Theory (ISIT)*, pp. 2092–2097, 2024. [DOI](#).

Tejas Pagare, Vivek Borkar, Konstantin Avrachenkov, “Full Gradient Deep Reinforcement Learning for Average-Reward Criterion,” *Learning for Dynamics and Control Conference (L4DC)*, PMLR 211, pp. 235–247, 2023. [PMLR](#).

FELLOWSHIPS AND HONORS

William Larimer Mellon Fellowship, Tepper School of Business, CMU 2025–2030

Egon Balas Fellowship Award, Tepper School of Business, CMU 2025–present

Spotlight Paper, Conference on Neural Information Processing Systems (NeurIPS) 2026

Financial Assistance Award, Conference on Neural Information Processing Systems (NeurIPS) 2026

RESEARCH EXPERIENCE

Honda R&D Co., Ltd., Tokyo, AI Researcher July 2024–August 2025

Ashoka University, Research Associate with Sandeep Juneja 2024

INRIA Sophia Antipolis, NEO Team, Research Intern May 2023–July 2023
Host: Konstantin Avrachenkov

Daikin Industries, Machine Learning Intern May 2022–June 2022

TALKS AND POSTERS

Two-Sided Bandit Learning in Matching Markets	INRIA Sophia Antipolis
Introduction to Bandits	Ashoka University
Full Gradient Deep RL for Average-Reward Criterion (poster)	L4DC 2023

TEACHING

Teaching Assistant, EE 325: Probability and Random Processes	IIT Bombay
Teaching Assistant, EE 734: Advanced Probability and Random Processes	IIT Bombay

LANGUAGES

English, Hindi, Marathi, Japanese