

Sourav Sahoo

Operations Research Center, Massachusetts Institute of Technology

[Email](#) ◇ [Website](#) ◇ [Google Scholar](#) ◇ [Github](#)

Research Interests

Online Learning, Game Theory, Mechanism Design.

Education

Doctor of Philosophy in Operations Research

Massachusetts Institute of Technology

Advisor: [Prof. Negin Golrezaei](#)

Sept. 2023 - Present

GPA: 5.0/5.0

Dual Degree (B.Tech & M.Tech) in Electrical Engineering

Indian Institute of Technology, Madras

Advisor: [Prof. Abhishek Sinha](#)

Thesis: The k -experts Problem.

July 2017 - July 2022

GPA: 9.56/10.00

Publications and Working Papers

C4. [Learning Safe Strategies for Value Maximizing Buyers in Uniform Price Auctions](#)

ICML 2025, 42nd International Conference on Machine Learning,

Negin Golrezaei and Sourav Sahoo.*

★ Finalist, 2025 Michael H. Rothkopf Junior Researcher Paper Prize.[§]

★ Finalist, 2025 Jeff McGill RMP Best Student Paper Prize.[§]

C3. [Distributed Online Optimization with Byzantine Adversarial Agents.](#)

ACC 2022, 41st American Control Conference,

Sourav Sahoo, Anand Gokhale, and Rachel Kalaimani.

C2. [k-experts - Online Policies and Fundamental Limits](#)

AISTATS 2022, 25th International Conference on Artificial Intelligence and Statistics,

Samrat Mukhopadhyay, Sourav Sahoo, and Abhishek Sinha.

C1. [A Segment Level Approach to Speech Emotion Recognition Using Transfer Learning](#)

ACPR 2019, 5th Asian Conference on Pattern Recognition,

Sourav Sahoo, Puneet Kumar, Balasubramanian Raman, and Partha Roy.

W1. [Multi-Modal Detection of Alzheimer's Disease from Speech and Text](#)

BIOKDD 2021, 20th International Workshop on Data Mining in Bioinformatics,

Amish Mittal[†], Sourav Sahoo[†], Arnhav Datar[†], Juned Kadiwala[†], Hrithwik Shalu, and Jimson Mathew.

WP1. Learning to Bid in Discriminatory Auctions with Budget Constraints

Negin Golrezaei and Sourav Sahoo.*

Awards and Honors

Finalist, **Michael H. Rothkopf Junior Researcher Paper Prize**, 2025.[§]

Finalist, **Jeff McGill RMP Best Student Paper Prize**, 2025.[§]

Caltech Summer Undergraduate Research Fellowship (SURF) in 2020.

All India Rank 49 among 1.5 million applicants in JEE Mains 2017.

Gold Medal in Indian National Physics Olympiad, 2017.

All India Rank 18 in Kishore Vaigyanik Protsahan Yojana, 2015.

Certificate of Merit in Indian National Mathematical Olympiad, 2015.

* Alphabetical

[†] Equal contribution

[§] Winners to be announced at the INFORMS Annual Meeting, 2025.

Industry Experience

Quantitative Research Analyst

JPMorgan Chase & Co.

July 2022 - July 2023

Mumbai, India

Data Science Intern

Gramophone - Transforming Agriculture

Dec 2019 - Jan 2020

Bengaluru, India

Teaching Experience

Teaching Assistant for EE1102: Introduction to Programming.

Spring 2022

Teaching Assistant for EE5110: Probability Foundations for Electrical Engineers.

Fall 2021

Teaching volunteer at Kendriya Vidyalaya (IIT Chennai) for high school science and mathematics.

2017-2018

Presentations and Talks

Learning Safe Strategies for Value Maximizing Buyers in Uniform Price Auctions

- MIT CSAIL Machine Learning Tea Talk, Cambridge, 2025.
- Online Learning and Economics Workshop @ ACM Economics and Computation (EC), Stanford, 2025.
- Market Innovation Workshop (MIW), Virtual, 2025.
- INFORMS Annual Meeting, Seattle, 2024.[‡]
- Data-Driven Decision Processes Workshop, Chicago, 2024.[‡]
- Revenue Management and Pricing (RMP) Section Conference, Los Angeles, 2024.[‡]
- Manufacturing and Service Operations Management (MSOM) Conference, Minneapolis, 2024.[‡]

Professional Services

Reviewer for *IEEE Transactions on Automatic Control*, *AISTATS 2026*.

Co-organizer, MIT ORC Student Seminar (Fall 2024, Spring 2025).

Co-organizer, Session on Generative AI for Markets, INFORMS Annual Meeting, 2025.

Skills

Languages: *Fluent:* English, Hindi. *Native:* Odia.

Programming: Python

Software & Libraries: Tensorflow, PyTorch, CVX, \LaTeX

References

Prof. Negin Golrezaei

Sloan School of Management

Massachusetts Institute of Technology

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Prof. Patrick Jaillet

Electrical Engineering and Computer Sciences

Massachusetts Institute of Technology

jaillet@mit.edu

Prof. Abhishek Sinha

School of Technology and Computer Science

Tata Institute of Fundamental Research

abhishek.sinha@tifr.res.in

[‡] An earlier version of the work was presented under the title ‘Bidding in Uniform Price Auctions for Value Maximizing Buyers’.