

Sourav Sahoo

Operations Research Center, Massachusetts Institute of Technology

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

Education

Doctor of Philosophy in Operations Research

Massachusetts Institute of Technology

Advisor: [Prof. Negin Golrezaei](#)

September 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, Preprints and Working Papers

- P1. Safe Strategies in Multi-Unit Auctions: Equilibria, Liquid Welfare, and Revenue
Draft available upon request,
Negin Golrezaei and Sourav Sahoo.*
- C5. [Learning to Bid in Discriminatory Auctions with Budget Constraints](#)
AISTATS 2026, 29th International Conference on Artificial Intelligence and Statistics,
Negin Golrezaei and Sourav Sahoo.*
★ Spotlight presentation (top 3%).
- C4. [Learning Safe Strategies for Value Maximizing Buyers in Uniform Price Auctions](#)
*Major Revision in **Management Science**,*
ICML 2025, 42nd International Conference on Machine Learning,
Negin Golrezaei and Sourav Sahoo.*
★ First Place, 2025 RMP Jeff McGill Student Paper Award.
★ Second Place, 2025 Michael H. Rothkopf Junior Researcher 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.

Awards and Honors

First Place, **RMP Jeff McGill Student Paper Award**, 2025.

Second Place, **Michael H. Rothkopf Junior Researcher Paper Prize**, 2025.

* Alphabetical

[†] Equal contribution

Caltech Summer Undergraduate Research Fellowship (SURF), 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.

Industry Experience

Quantitative Research Analyst <i>JPMorgan Chase & Co.</i>	July 2022 - July 2023 <i>Mumbai, India</i>
Data Science Intern <i>Gramophone - Transforming Agriculture</i>	December 2019 - January 2020 <i>Bengaluru, India</i>

Teaching Experience

Teaching Assistant for 15.730: Data, Model and Decisions (EMBA level, MIT Sloan).	Spring 2026
Teaching Assistant for EE1102: Introduction to Programming (IIT Madras).	Spring 2022
Teaching Assistant for EE5110: Probability Foundations for Electrical Engineers (IIT Madras).	Fall 2021

Presentations and Talks

Learning Safe Strategies for Value Maximizing Buyers in Uniform Price Auctions

- MIT ORC Student Seminar, Cambridge, 2025.
- INFORMS Annual Meeting, Atlanta, 2025.
- 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 Journals: IEEE Transactions on Automatic Control, Operations Research.
Reviewer for Conferences: AISTATS 2026, EC 2026.
Co-organizer, MIT ORC Student Seminar (Fall 2024, Spring 2025).
Co-organizer, Session on Generative AI for Markets, INFORMS Annual Meeting, 2025.
Student co-organizer, MIT Sloan OM Seminar Series (Spring 2026).

Skills

Languages: *Fluent:* English, Hindi. *Native:* Odia.
Programming: Python
Software & Libraries: Tensorflow, PyTorch, CVX, L^AT_EX

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

References

Prof. Negin Golrezaei

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Prof. Patrick Jaillet

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Massachusetts Institute of Technology
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