

# Sourav Sahoo

Operations Research Center, Massachusetts Institute of Technology  
[Email](#) ◊ [Website](#) ◊ [Google Scholar](#) ◊ [Github](#)

## Education

<b>Doctor of Philosophy in Operations Research</b> Massachusetts Institute of Technology Advisor: Prof. Negin Golrezaei	September 2023 - Present GPA: 5.0/5.0
<b>Dual Degree (B.Tech &amp; M.Tech) in Electrical Engineering</b> 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<sup>†</sup>, Sourav Sahoo<sup>†</sup>, Arnhav Datar<sup>†</sup>, Juned Kadiwala<sup>†</sup>, 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

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**Quantitative Research Analyst**

*JPMorgan Chase & Co.*

July 2022 - July 2023

*Mumbai, India*

**Data Science Intern**

*Gramophone - Transforming Agriculture*

December 2019 - January 2020

*Bengaluru, India*

## Teaching Experience

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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

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*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.<sup>‡</sup>
- Data-Driven Decision Processes Workshop, Chicago, 2024.<sup>‡</sup>
- Revenue Management and Pricing (RMP) Section Conference, Los Angeles, 2024.<sup>‡</sup>
- Manufacturing and Service Operations Management (MSOM) Conference, Minneapolis, 2024.<sup>‡</sup>

## Professional Services

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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

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

**Programming:** Python

**Software & Libraries:** Tensorflow, PyTorch, CVX, L<sup>A</sup>T<sub>E</sub>X

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<sup>‡</sup> An earlier version of the work was presented under the title ‘Bidding in Uniform Price Auctions for Value Maximizing Buyers’.

## References

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**Prof. Negin Golrezaei**

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