

Swaprava Nath

Computer Science and Engineering
Indian Institute of Technology Bombay
Powai, Mumbai 400 076
Maharashtra, India

Voice: (+91) 22 2576 7755
Office: CC 209 (New CSE Building)
Email: swaprava@cse.iitb.ac.in (preferred)
Homepage: www.cse.iitb.ac.in/~swaprava

Research Interests

Multi agent decision making, game theory, algorithmic mechanism design, computational social choice, auctions, crowdsourcing, social networks.

Academic Employment

- Associate Professor *2025 - till date*
Department of Computer Science and Engineering
Indian Institute of Technology, Bombay, India
- Assistant Professor *2021 - 2025*
Department of Computer Science and Engineering
Indian Institute of Technology, Bombay, India
- Assistant Professor *2017 - 2021*
Department of Computer Science and Engineering
Indian Institute of Technology, Kanpur, India
- Fulbright-Nehru Post Doctoral Fellow *2015 - 2017*
Computer Science Department
Carnegie Mellon University, Pittsburgh, USA
Host: Prof. Ariel Procaccia
Research: Computational Social Choice
- Lecturer and Post Doctoral Fellow *2013 - 2015*
Economics and Planning Unit
Indian Statistical Institute, New Delhi, India
Host: Prof. Arunava Sen
Research: Mechanism Design Theory

Education

- Doctor of Philosophy (Ph.D.) in Computer Science *2009 - 2013*
Indian Institute of Science, Bangalore, India
Research: Mechanism Design for Strategic Crowdsourcing
Thesis Supervisor: Prof. Y. Narahari
- Master of Engineering (M.E.) in Telecommunication *2006 - 2008*
Indian Institute of Science, Bangalore, India
Research: Self Organization in Wireless Sensor Networks
Research Supervisor: Prof. Anurag Kumar
- Bachelor of Engineering (B.E.) in Electronics & Telecommunication *2002 - 2006*
Jadavpur University, Kolkata, India
Final year project: *Analysis of Time Modulated Linear Antenna Array*
Project Supervisor: Prof. Bhaskar Gupta

Industry Experience

- Research intern at **Xerox Research Centre Europe**, Grenoble, France. *June - August, 2010*
- Software engineer in **Cisco Systems (India) Private Limited**. *August 2008 - July 2009*

Awards and Achievements

- **Discussion Master** award for serving as a reviewer in ECAI 2023. Only 83 reviewers (out of over 700 Reviewers with at least 4 reviews) received this award.
- **Senate commendation** for *teaching excellence* in the course “CS711: Introduction to Game Theory and Mechanism Design” taught in the 2020-21-I semester, IIT Kanpur.
- Our solution *Satyanweshi*, a truth-seeking chatbot, secured **the second place in MHRD AICTE Samadhan online challenge** in response to COVID-19: <https://mic.gov.in/hackathon/samadhan> among more than 2500 participants, 2020.
- **Fulbright-Nehru Postdoctoral Fellowship** for research in Internet Economics, 2015.
- **Honorable Mention Award** in Yahoo! Key Scientific Challenges Program, 2012.
- **Tata Consultancy Services PhD Fellowship** for 2010.

Publications*

*Depending on the conventions of certain research communities, e.g., in economics and theoretical computer science, author orders are alphabetical. Impact factor and acceptance rate statistics courtesy: DBLP, CiteSeerX, RePEc (for economics), and corresponding conference organizations.

Working Paper(s):

- [W3] Sayantika Mandal, Harman Agrawal, **Swaprava Nath**, “*Likes, Budgets, and Equilibria: Designing Contests for Socially Optimal Advertising*”, Technical Report, 2026.
- [W2] Ashwin Goyal, Drashti Doshi, **Swaprava Nath**, “*Temporal Cooperative Games*”, Technical Report, 2026.
- [W1] Drashti Doshi, Aditya Vema Reddy Kesari, Avishek Ghosh, **Swaprava Nath**, Suhas S Kowshik, “*Incentivize Contribution and Learn Parameters Too: Federated Learning with Strategic Data Owners*”, Technical Report, 2025.

Books:

- [B1] Dengji Zhao, Dong Hao, Bin Li, **Swaprava Nath**, and Taiki Todo, “*Mechanism Design in Social Networks*”, Edited Proceedings of 2nd International Workshop, MNet 2025, Held in Conjunction with IJCAI 2025, Montreal, Canada, August 16–22, 2025, ISBN 978-981-95-5163-7, Communications in Computer and Information Science Series, Springer.

Journals:

- [J12] Anujit Chakraborty, Jatin Jindal, and **Swaprava Nath**, “*Incentivizing Effort and Precision in Peer Grading*”, In **Journal of Artificial Intelligence Research**, Volume 79, March 2024, 1001-1046. **Impact factor: 2.441.**
- [J11] Aasheesh Dixit*, Garima Shakya*, Suresh Kumar Jakhar, and **Swaprava Nath** (*equal contribution), “*Egalitarian and Congestion Aware Truthful Airport Slot Allocation Mechanism*”, In **Transportation Research Part E**, Volume 169, January 2023, 102971. **Impact factor: 10.047**
- [J10] Ioannis Caragiannis, Aris Filos-Ratsikas, **Swaprava Nath**, and Alexandros A. Voudouris, “*Truthful ownership transfer with expert advice*”. In **Mathematical Programming**, June, 2022; pp 1-30. **Impact factor: 3.060**
- [J9] Palash Dey, Neeldhara Misra, **Swaprava Nath**, and Garima Shakya, “*A Parameterized Perspective on Protecting Elections*”. In **Theoretical Computer Science (TCS)**, Jun 12, 2021; pp 874:15-31. **Impact factor: 0.718**
- [J8] Gerdus Benade, **Swaprava Nath**, Ariel Procaccia, and Nisarg Shah, “*Preference Elicitation For Participatory Budgeting*”. In **Management Science (MS)** 67(5), pp 2813-2827, Sep 23, 2020. **Impact factor: 4.219**

- [J7] **Swaprava Nath** and Tuomas Sandholm, “*Efficiency and Budget Balance in General Quasi-linear Domains*”. In **Games and Economic Behavior (GEB)**, Volume 113, 2019, pp 673-693. **Impact factor: 1.251**
- [J6] Debasis Mishra, **Swaprava Nath**, and Souvik Roy, “*Separability and Decomposition in Mechanism Design with Transfers*”. In **Games and Economic Behavior (GEB)**, Volume 109, 2018, pp 240-261. **Impact factor: 1.251**
- [J5] Ioannis Caragiannis, **Swaprava Nath**, Ariel Procaccia, and Nisarg Shah, “*Subset Selection Via Implicit Utilitarian Voting*”. In **Journal of Artificial Intelligence Research (JAIR)**, Volume 58, 2017, pp 123-152. **Impact factor: 2.441**
- [J4] **Swaprava Nath**, Onno Zoeter, Y. Narahari, and Chris Dance, “*Dynamic Mechanism Design with Interdependent Valuations*”. In **Review of Economic Design (ROED)**, 19(3), 2015, pp 211-228. **Impact factor: 3.461**
- [J3] **Swaprava Nath** and Arunava Sen, “*Affine Maximizers in Domains with Selfish Valuations*”. In **ACM Transactions on Economics and Computation (ACM-TEAC)**, 3(4), 2015, article 26, pp 26:1-19. **Impact factor: 1.967**
- [J2] **Swaprava Nath** and Onno Zoeter, “*A Strict Ex-post Incentive Compatible Mechanism for Interdependent Valuations*”. **Economics Letters**, 121(2), 2013, pp 321-325. **Impact factor: 5.059**
- [J1] **Swaprava Nath**, Venkatesan N. E., Anurag Kumar, and P. Vijay Kumar, “*Theory and Algorithms for Hop-Count-Based Localization with Random Geometric Graph Models of Dense Sensor Networks*”. In **ACM Transactions on Sensor Networks (ACM-TOSN)**, 8(4), 2012, article 35, pp 35:1-38. **Impact factor: 1.388**

Peer-reviewed Conferences and Workshops:

- [C31] Pulkit Agarwal, Harshvardhan Agarwal, Vaibhav Raj, and **Swaprava Nath**, “*Harmonious Balanced Partitioning of a Network of Agents*”, In Proceedings, **Autonomous Agents and Multiagent Systems (AAMAS)**, Detroit, United States, May 19–23, 2025, IFAAMAS, 9 pages. **Acceptance rate: 23%**
- [C30] Ramsundar Anandanarayanan, **Swaprava Nath**, and Prasant Misra, “*Fair and Efficient Divisible Resource Scheduling with Applications to Electric Vehicle Charging*”, In Proceedings, **Autonomous Agents and Multiagent Systems (AAMAS)**, Detroit, United States, May 19–23, 2025, IFAAMAS, 9 pages. **Acceptance rate: 23%**
- [C29] Kartik Gokhale, Amit Kumar Mallik, Ankit Kumar Misra, and **Swaprava Nath**, “*A Gale-Shapley View of Unique Stable Marriages*”, To appear, **European Conference on Artificial Intelligence (ECAI)**, 2024. **Acceptance rate: 24%**
- [C28] Rangeet Bhattacharyya, Parvik Dave, Palash Dey, and **Swaprava Nath**, “*Myerson on a Network*”, In Proceedings, **Autonomous Agents and Multiagent Systems (AAMAS)**, Auckland, New Zealand, May 6 – 10, 2024, IFAAMAS, 9 pages. **Acceptance rate: 23%**
- [C27] Yatharth Kumar, Sarfaraz Equbal, Rohit Gurjar, **Swaprava Nath**, and Rohit Vaish, “*Fair Scheduling of Indivisible Chores*”, (extended abstract) In Proceedings, **Autonomous Agents and Multiagent Systems (AAMAS)**, Auckland, New Zealand, May 6 – 10, 2024, IFAAMAS, 3 pages. **Acceptance rate: 23%**
- [C26] Ramsundar Anandanarayanan, **Swaprava Nath**, and Rohit Vaish, “*Charging Electric Vehicles Fairly and Efficiently*”, (extended abstract) In Proceedings, **Autonomous Agents and Multiagent Systems (AAMAS)**, Auckland, New Zealand, May 6 – 10, 2024, IFAAMAS, 3 pages. **Acceptance rate: 23%**

- [C25] Tejpalsingh Siledar, Swaroop Nath, Sri Raghava, Rupasai Rangaraju, **Swaprava Nath**, Pushpak Bhattacharyya, Suman Banerjee, Amey Patil, Sudhanshu Shekhar Singh, Muthusamy Chelliah, Nikesh Garera, “*One Prompt To Rule Them All: LLMs for Opinion Summary Evaluation*”, In Proceedings, **Association for Computational Linguistics (ACL)**, 2024, pp. 12119–12134. **Acceptance rate: 24%**
- [C24] Tejpalsingh Siledar, Rupasai Rangaraju, Sri Raghava Muddu, **Swaprava Nath**, Pushpak Bhattacharyya, Suman Banerjee, Amey Patil, Sudhanshu Shekhar Singh, Muthusamy Chelliah, Nikesh Garera, “*Product Description and QA Assisted Self-Supervised Opinion Summarization*”, In Proceedings, **North American Chapter of the Association for Computational Linguistics (NAACL)**, 2024, pp. 2315–2332. **Acceptance rate: 23%**
- [C23] Garima Shakya, Sai Koti Reddy Danda, **Swaprava Nath**, Pankaj Dayama, and Surya Shraavan Kumar Sajja, “*Truthful and Fair Lateral Transshipment in Multi-Retailer Systems*”, In Proceedings, **European Conference on Artificial Intelligence (ECAI)**, 2023, pp. 2113–2120. **Acceptance rate: 24%**
- [C22] Sujan Dutta, Parth Srivastava, Vaishnavi Solunke, **Swaprava Nath**, and Ashiqur R. KhudaBukhsh, “*Disentangling Societal Inequality from Model Biases: Gender Inequality in Divorce Court Proceedings*”, In Proceedings, **International Joint Conference on Artificial Intelligence (IJCAI)**, 2023, pp. 5959–5967. **Acceptance rate: 15%**
- [C21] Deepesh Kumar Lall*, Garima Shakya*, and **Swaprava Nath** (*equal contribution), “*Social Distancing via Social Scheduling*”, In Proceedings, **Autonomous Agents and Multiagent Systems (AAMAS)**, 2023, pp 1858–1866. **Acceptance rate: 23%**
- [C20] Sankar Das, **Swaprava Nath**, and Indranil Saha, “*OMCoRP: An Online Mechanism for Competitive Robot Prioritization*”, In Proceedings, **International Conference on Automated Planning and Scheduling (ICAPS)**, May 17, 2021, Vol. 31, pp 112–121.
- [C19] Jay Gupta and **Swaprava Nath**, “*SkillCheck: An Incentive-based Certification System using Blockchains*”. In Proceedings, **IEEE International Conference on Blockchain and Cryptocurrency (ICBC)**, 3–6 May, 2020, Toronto, Canada, pp 1–3.
- [C18] Somu Prajapati, Ayushi Gupta, Shubham Kumar Nigam, and **Swaprava Nath**, “*SwaGrader: An Honest Effort Extracting, Modular Peer-Grading Tool*”. In Proceedings, **ACM IKDD Joint International Conference on Data Science & Management of Data (CoDS-COMAD)**, January 3–5, 2020, Hyderabad, India, pp 312–316. **Acceptance rate: 31%**
- [C17] Palash Dey, Neeldhara Misra, **Swaprava Nath**, and Garima Shakya, “*A Parameterized Perspective on Protecting Elections*”. In Proceedings, **International Joint Conference on Artificial Intelligence (IJCAI)**, August 10–16, 2019, Macao, China, pp 238–244. **Acceptance rate: 18%**
- [C16] Palash Dey, **Swaprava Nath**, and Garima Shakya, “*Testing Preferential Domains Using Sampling*”. In Proceedings, **International Conference on Autonomous Agents and Multiagent Systems (AAMAS)**, May 13–17, 2019, Montreal, Canada, pp 855–863. **Acceptance rate: 25%**
- [C15] Palash Dey, Pravesh K. Kothari, and **Swaprava Nath**, “*The Social Network Effect on Surprise in Elections*”. In Proceedings, **ACM IKDD Joint International Conference on Data Science & Management of Data (CoDS-COMAD)**, January 3–5, 2019, Kolkata, India, pp. 1–9. [finalist for the best paper] **Acceptance rate: 31%**
- [C14] Ioannis Caragiannis, Aris Filos-Ratsikas, **Swaprava Nath**, and Alexandros A. Voudouris, “*Truthful mechanisms for ownership transfer with expert advice*”. In **Workshop on Opinion Aggregation, Dynamics, and Elicitation (WADE)**, In conjunction with **ACM Conference on Economics and Computation (EC)**, 2018.

- [C13] Stefanos Nikolaidis, **Swaprava Nath**, Ariel Procaccia, and Siddhartha Srinivasa, “*A Game-Theoretic Formalism of Human Partial Adaptation: Models and Experiments*”. In Proceedings, **Human Robot Interaction (HRI)**, March 6-9, 2017, Vienna, Austria, pp 323-331. **Acceptance rate: 24%**
- [C12] Gerdus Benade, **Swaprava Nath**, Ariel Procaccia, and Nisarg Shah, “*Preference Elicitation For Participatory Budgeting*”. In Proceedings, **AAAI Conference on Artificial Intelligence (AAAI)**, February 4-9, 2017, San Francisco, California, USA, pp 376-382. **Acceptance rate: 25%**
- [C11] **Swaprava Nath** and Tuomas Sandholm, “*Efficiency and Budget Balance*”. In Proceedings, **Web and Internet Economics (WINE)**, December 11-14, 2016, Montreal, Canada, pp 369-383. **Acceptance rate: 24%**
- [C10] Ioannis Caragiannis, **Swaprava Nath**, Ariel Procaccia, and Nisarg Shah, “*Subset Selection Via Implicit Utilitarian Voting*”. In Proceedings, **International Joint Conference on Artificial Intelligence (IJCAI)**, July 9-15, 2016, New York, USA, pp 151-157. **Acceptance rate: 25%**
- [C9] **Swaprava Nath** and Balakrishnan Narayanaswamy, “*Productive Output in Hierarchical Crowdsourcing*”. In Proceedings, **Autonomous Agents and Multi-Agent Systems (AAMAS)**, May 5-9, 2014, Paris, France, pp 469-476. **Acceptance rate: 24%**
- [C8] Satyanath Bhat, **Swaprava Nath**, Onno Zoeter, Sujit Gujar, Y. Narahari, and Chris Dance, “*A Quality Assuring Mechanism for Crowdsourcing with Strategic Agents*”. In Proceedings, **Autonomous Agents and Multi-Agent Systems (AAMAS)**, May 5-9, 2014, Paris, France, pp 917-924. **Acceptance rate: 24%**
- [C7] Kundan Kandhway, **Swaprava Nath**, Bhushan Kotnis, Balakrishnan Narayanaswamy, and David C. Parkes, “*On Profit Sharing and Hierarchies in Organizations*”. Presented in the **Asian Meeting of the Econometric Society (AMES)**, Dec 20-22, 2012, New Delhi, India, paper 119, pp 1-19.
- [C6] **Swaprava Nath**, Pankaj Dayama, Dinesh Garg, Y. Narahari, and James Zou, “*Mechanism Design for Time Critical and Cost Critical Task Execution via Crowdsourcing*”. In Proceedings, **Web and Internet Economics (WINE)**, December 9-12, 2012, Liverpool, UK, pp 212-226. **Acceptance rate: 24%**
- [C5] **Swaprava Nath**, Pankaj Dayama, Dinesh Garg, Y. Narahari, and James Zou, “*Threats and Trade-offs in Resource Critical Crowdsourcing Tasks over Networks*”. In Proceedings, **AAAI Conference on Artificial Intelligence (AAAI)**, July 22-26, 2012, Toronto, Canada, pp 2447-2448. **Acceptance rate: 26%**
- [C4] **Swaprava Nath**, Onno Zoeter, Y. Narahari, and Chris Dance, “*Dynamic Mechanism Design for Markets with Strategic Resources*”. In Proceedings, **Conference on Uncertainty in Artificial Intelligence (UAI)**, July 14-17, 2011, Barcelona, SPAIN, pp 539-546. **Acceptance rate: 34%**
- [C3] **Swaprava Nath**, “*Dynamic Learning-based Mechanism Design for Dependent Valued Exchange Economies*”. PhD proposal, in Proceedings, **World Wide Web (WWW), PhD Symposium Track**, ACM, March 28 - April 1, 2011, Hyderabad, INDIA, pp 397-402. **Acceptance rate: 15%**
- [C2] **Swaprava Nath** and Anurag Kumar, “*Performance Evaluation of Distance-Hop Proportionality on Geometric Graph Models of Dense Sensor Networks*”. In Proceedings, **International Conference on Performance EVALUation Methodologies and TOOLS (VALUETOOLS)**, ACM, October 21-23, 2008, Athens, GREECE, pp 4247:1-10. **Acceptance rate: 35%**
- [C1] **Swaprava Nath** and Subrata Mitra, “*Linear Antenna Array with Suppressed Sidelobe and Sideband Levels using Time Modulation*”. In International Conference On Computers And Devices For Communication (**CODEC**), December 2006, Kolkata, INDIA, pp 73-76.

Dissertations:

- [D2] “*Mechanism Design for Strategic Crowdsourcing*”, PhD Thesis, Indian Institute of Science, Bangalore, December 2013.
Advisor: Prof. Y. Narahari
- [D1] “*Self Organisation in Random Geometric Graph models of Wireless Sensor Networks*”, Masters Thesis, Indian Institute of Science, Bangalore, June 2008.
Advisor: Prof. Anurag Kumar

Other Paper(s):

- [O2] **Swaprava Nath** and Balakrishnan Narayanaswamy, “*Improving Productive Output in Influencer-Influencee Networks*”. Technical Report, 2013.
- [O1] Ankur Gupta*, Yash Varun*, Prarthana Das*, Nithya Muttineni*, Parth Srivastava*, Hamim Zafar, and **Swaprava Nath** (*equal contribution), “*TruthBot: An Automated Conversational Tool for Intent Learning, Curated Information Presenting, and Fake News Alerting*”, Technical Report, 2020.

Research Translation

- **Mulyankan**: this is a web-based solution for instructors, TAs, and students to upload, grade, view graded exam papers, and raise regrading requests. The solution is also designed to include peer-grading with provable guarantees. Joint work with Harsh Kumar, Anishek Chaudhary, Shikhar Rai, and Suraj Shetiya.
- **Doori**: social distancing via social scheduling. This is an app to schedule buyers to a shop so that the maximum capacity to maintain fair social distance can be maintained and the schedule takes care of the importance of the buyers’ needs. Video explainer: <https://youtu.be/5nDkPMxRFe4>.
- **SwaGrader**: evaluation of the students, by the students, for the MOOCs. This is an honest effort extracting peer-grading tool. Video explainer: https://youtu.be/_BGE3-FrkRU. Joint work with Somu Prajapati, Ayushi Gupta, and Shubham K. Nigam.
- **Satyanweshi**: The Truth-seeking Chatbot (for COVID-19). This is a truth-checking chatbot, which carefully collects information from various reliable sources and informs whether a piece of news is true or not. It also gives general information on COVID-19, and provides googled results if it matches neither of the earlier classes. Video explainer: <https://youtu.be/DU6UnFBhpPk>. Joint work with Ankur Gupta, Yash Varun, Nithya Muttineni, Prarthana Das, and Hamim Zafar.

Funded Research Projects

Following are the externally funded research projects that I executed (am executing) as principal (PI) or co-principal investigator (co-PI).

- Artificial Intelligence for Security Planning: A Game-Theoretic Approach, Role: PI, Year: 2025 — Amount: 8700000, Funding agency: Anusandhan National Research Fund (ANRF), erstwhile Science and Engineering Research Board (SERB), Government of India
- Innovative Learning Material and Evaluation, Role: PI, Year: 2022 — Amount: 900000, Funding agency: IIT Bombay Trust Lab
- Large-scale Education System Design via Peer-grading, Role: PI, Year: 2024 — Amount: 3132000, Funding agency: Anusandhan National Research Fund (ANRF), erstwhile Science and Engineering Research Board (SERB), Government of India
- Optimal Auction Mechanisms for Selling Multiple Heterogeneous Items in Static and Dynamic Settings, Role: Co PI, Year: 2023 — Amount: 1700000, Funding agency: Anusandhan National Research Fund (ANRF), erstwhile Science and Engineering Research Board (SERB), Government of India
- Mechanism design for electric vehicle charging infrastructure, Role: PI, Year: 2023 — Amount: 900000, Funding agency: Tata Consultancy Services Research

- Incentivizing Contribution in Federated Learning, Role: Co PI, Year: 2023 — Amount: 2660000, Funding agency: Amazon Research India
- Improving reach of banking products over social networks, Role: PI, Year: 2023 — Amount: 2500000, Funding agency: State Bank of India and IIT Bombay Innovation Hub
- Social distancing via social scheduling, Role: PI, Year: 2022 — Amount: 660000, Funding agency: Anusandhan National Research Fund (ANRF), erstwhile Science and Engineering Research Board (SERB), Government of India
- Assistive AI Technology Development for Supply Chain Management, Role: PI, Year: 2021 — Amount: 1300000, Funding agency: Technocraft Centre for Applied Artificial Intelligence
- Faculty grant under IIT Bombay seed grant
- Faculty grant under Dr. Gauri Shah Endowment Fund

Every funding agency's support is gratefully acknowledged.

Teaching

- **CS6002: Selected Areas of Mechanism Design**, January - April, every year starting from 2023, at IIT Bombay
- **CS6001: Game Theory and Algorithmic Mechanism Design**, July - November, every year starting from 2022, at IIT Bombay
- **CS425: Computer Networks**, January - April, 2020, 2021, at IIT Kanpur
- **ESC101: Fundamentals of Computing**, January - April, 2019, at IIT Kanpur
- **CS712: Selected Areas of Mechanism Design**, January - April, 2018, at IIT Kanpur
- **CS711: Introduction to Game Theory and Mechanism Design**, July - November, 2017, 2018, 2020, 2021 at IIT Kanpur.
- **Comp271: Scientific Computing using Python**, July - November, 2014, at Indian Statistical Institute, Delhi.
- **Mathematical Programming with Applications to Economics**, January - April, 2014, at Indian Statistical Institute, Delhi. (co-taught with Debasis Mishra)

Student Advising

Graduate:

- **Shikhar Rai**, MS (Research), CSE, IIT Bombay, 2025 -
- **Ramsundar Anandanarayanan**, PhD, CSE, IIT Bombay, 2025 -
- **Drashthi Doshi**, PhD, CSE, IIT Bombay, 2023 -
- **Sayantika Mandal**, PhD, CSE, IIT Bombay, 2023 -
- **Hyderi Narjis Asad**, PhD, CSE, IIT Bombay, 2021 -
- **Anurag Deshpande**, IDDDP, CMInDS, IIT Bombay, expected graduation 2026
- **Harsh Kumar** (co-advised with Prof. Suraj Shetiya), MTech, CSE, IIT Bombay, 2024 -
- **Anishek Kumar Chaudhary** (co-advised with Prof. Suraj Shetiya), MTech, CSE, IIT Bombay, 2024 -
- **Ramsundar Anandanarayanan**, MS (Research), CSE, IIT Bombay, 2022 - 2025
- **Rupasai Rangaraju** (co-advised with Prof. Pushpak Bhattacharyya), MTech, CSE, IIT Bombay, graduated 2024

- **Raghava Ravindra Muddu** (co-advised with Prof. Pushpak Bhattacharyya), MTech, CSE, IIT Bombay, graduated 2024
- **Garima Shakya**, PhD student, CSE, IIT Kanpur, 2017 - 2021. Current position: Assistant Professor, IIT Palakkad.
- **Aasheesh Dixit**, PhD, IIM Lucknow, 2017 - 2021 (co-supervised with Prof. Suresh Jakhar). First position: Lecturer of Operations Management at IMT Business School, Dubai.
- **Anurag Maithani**, MTech (CSE, IIT Kanpur), graduated 2021.
- **Nivedita Shukla**, BS-MS (ECO, IIT Kanpur), co-advised with Prof. Wasim Ahmad, graduated 2021.
- **Rahul Bhatta**, (thesis supervised, title: "Strategyproof Voting with Cardinal Preferences") Master of Science in Quantitative Economics (MSQE), Indian Statistical Institute, New Delhi, 2015.

Undergraduate:

- **Krish Gupta** (co-advised with Prof. Sujoy Bhore), CSE, IIT Bombay, BTP, April-November 2025.
- **Nivesh Aggarwal**, CSE, IIT Bombay, BTP, April-November 2025.
- **Dhvanil Gheewala**, CSE, IIT Bombay, BTP, April-November 2025.
- **Arnav Garg**, CSE, IIT Bombay, R&D, April-November 2025.
- **Chinmay Khokar**, CSE, IIT Bombay, R&D, April-November 2025.
- **Ashwin Goyal**, CSE, IIT Bombay, BTP, April-November 2024.
- **Govind Kumar**, CSE, IIT Bombay, BTP, April-November 2024.
- **Vaibhav Raj**, CSE, IIT Bombay, Independent Project, April-November 2023.
- **Harshvardhan Agarwal**, CSE, IIT Bombay, Independent Project, April-November 2023.
- **Pulkit Agarwal**, CSE, IIT Bombay, Independent Project, April-November 2023.
- **Anish Kulkarni**, Math, IIT Bombay, Independent Project, April-November 2023.
- **Puranjay Datta**, EE, IIT Bombay, Independent Project, April-November 2023.
- **Amit Kumar Mallik**, CSE, IIT Bombay, Independent Project, April-November 2023.
- **Ankit Kumar Misra**, CSE, IIT Bombay, Independent Project, April-November 2023.
- **Kartik Gokhale**, CSE, IIT Bombay, Independent Project, April-November 2023.
- **Parvik Dave**, EE, IIT Bombay, BTP, January-April 2023.
- **Devyanshi Singh**, Math, IIT Kanpur, UGP, January-April 2021.
- **Tanmay Anand**, CSE, IIT Kanpur, UGP, January-April 2020.
- **Vipul Shankhpal**, CSE, IIT Kanpur, UGP, January-April 2020.
- **Sudhanshu Bansal**, CSE, IIT Kanpur, UGP, January-April 2020.
- **Ayushi Gupta**, CHE, IIT Kanpur, UGP, August-November 2019.
- **Somu Prajapati**, CSE, IIT Kanpur, UGP, August-November 2019.
- **Jay Gupta**, ECO, IIT Kanpur, UGP, August-November 2019.
- **Sriram Varun Vobilisetty**, CSE, IIT Kanpur, UGP, August-November 2019.
- **Jatin Jindal**, CSE, IIT Kanpur, UGP, August-November 2018.
- **Shivam Pal**, EE, IIT Kanpur, UGP, August-November 2018.
- **Pawan Agarwal**, MTH, IIT Kanpur, UGP, August-November 2018.
- **Shivangi Ranjan**, EE, IIT Kanpur, UGP, August-November 2018.

- **Piyush Bagad**, “Characterization of Implementable Mechanisms for Various Domains in Quasilinear Setting”, UGP, January-April 2018, at IIT Kanpur.
- **Sachin K. Salim**, “A Quantitative Comparison of Solo and Shared Ride”, UGP, January-April 2018, at IIT Kanpur.

Interns:

- **Ritabrata Barat**, ETCE, Jadavpur University, IKDD Uplink, May-July 2023.
- **Prakansh Gupta**, CSE, IIT Kanpur, SURGE, April-August 2021.
- **Aadityan Ganesh**, Math and CS, Chennai Mathematical Institute, summer intern, April-August 2020.
- **Prarthana Das**, EE, IIT Kanpur, summer intern, April-August 2020.
- **Nithya Muttineni**, CSE, IIT Kanpur, summer intern, April-August 2020.
- **Yash Varun**, ME, IIT Kanpur, summer intern, April-August 2020.
- **Ankur Gupta**, EE, IIT Kanpur, summer intern, April-August 2020.
- **Jay Gupta**, SURGE summer intern, 2019 (IITK).
- **Jatin Jindal**, SURGE summer intern, 2018 (IITK).
- **Pranjali Agarwal**, summer intern, 2018 (LNMIT, Jaipur).
- **Mohak Kulashretha**, summer intern, 2018 (Shiv Nadar University).
- **Rohini Das**, summer intern, 2018 (Jadavpur University).
- **Shikhar Rastogi**, summer intern, 2018 (BITS Pilani, Goa).
- **Gargi Singh**, summer intern, 2018 (IITK).
- **Aditya Aradhye**, Summer Intern from Chennai Mathematical Institute, supervised at Indian Statistical Institute, New Delhi, 2015.

Academic Services

- Organizer, ACM India IndiCS School and Seminar on Algorithmic Mechanism Design (CHOICE: Computation, Humans, Optimization, Incentives, Collective decision, and Economics, 2025).
- Organizer, International Workshop on Mechanism Design in Social Networks (part of the International Joint Conference on Artificial Intelligence (IJCAI), 2024, 2026).
- Organizer, Computational Social Choice Theory Workshop (part of the conference *Foundations of Software Technology and Theoretical Computer Science* (FSTTCS), 2017).
- PC and SPC services: *Association for Advancement of Artificial Intelligence (AAAI)*, *International Joint Conference on Artificial Intelligence (IJCAI)*, *Autonomous Agents and Multi-Agent Systems (AAMAS)*, *European Conference on Artificial Intelligence (ECAI)*, *Web and Internet Economics (WINE)*, *ACM Conference of Economics and Computation (EC)*, *Computational Social Choice (COMSOC)*, *Mathematical Social Science*, *Artificial Intelligence*.

References

Available upon request.