

Swaprava Nath

Computer Science and Engineering
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Research Interests

Multi agent decision making, game theory, mechanism design, computational social choice, auctions, crowd-sourcing, 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.
- **Intern Day Prize** for the presentation on Intern Day, August 30, 2010, at Xerox Research Centre Europe, Grenoble, France.
- Graduate Aptitude Test in Engineering (GATE, Entrance test for graduate studies in engineering) 2006: **All India Rank 34** out of approximately 40,000 candidates in Electronics and Communication stream.
- **Bronze medal** for securing the second highest aggregate of marks among all the courses of the Bachelor of Engineering examination 2006, Jadavpur University, Kolkata, India, out of approximately 800 students in 13 departments.

Publications*

**I am a primary contributor in all the papers mentioned here. 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):

- [W1] Drashthi Doshi, Aditya Vema Reddy Kesari, Avishek Ghosh, **Swaprava Nath**, Suhas S Kowshik, Faizan Ahemad, “*Incentivize Contribution and Learn Parameters Too: Federated Learning with Strategic Data Owners*”, Technical Report, 2024.

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*”, To appear, **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*”, To appear, **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 Eqbal, 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, **Swaprava Nath**, and Tanmoy Chakraborty (*equal contribution), “*TruthBot: An Automated Conversational Tool for Intent Learning, Curated Information Presenting, and Fake News Alerting*”, Technical Report, 2020.

Tools Developed

- **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, Hamim Zafar, and Tanmoy Chakraborty.

Funding Agencies

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- IIT Bombay seed grant,
- Science and Engineering Research Board (SERB), Government of India,
- Tata Consultancy Services,
- State Bank of India and IIT Bombay Innovation Hub,
- Amazon Research India,
- Technocraft Centre for Applied Artificial Intelligence,
- IIT Bombay Trust Lab,
- Dr. Gauri Shah Endowment Fund.

My heartfelt gratitude for their support.

Teaching

- **CS6002: Selected Areas of Mechanism Design**, January - April, 2023, at IIT Bombay
- **CS6001: Game Theory and Algorithmic Mechanism Design**, July - November, 2022, 2023, 2024, 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:

- **Drashthi Doshi**, PhD, CSE, IIT Bombay, 2023 -
- **Sayantika Mandal**, PhD, CSE, IIT Bombay, 2023 -
- **Hyderi Narjis Asad**, PhD, CSE, IIT Bombay, 2021 -
- **Santosh Kavhar**, MTech, CSE, IIT Bombay, graduated 2024
- **Ramsundar Anandanarayanan**, MS (Research), CSE, IIT Bombay, 2022 -
- **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:

- **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 Aradhya**, Summer Intern from Chennai Mathematical Institute, supervised at Indian Statistical Institute, New Delhi, 2015.

Academic Services

- Organizer, International Workshop on Mechanism Design in Social Networks (part of the International Joint Conference on Artificial Intelligence (IJCAI), 2024).
- Organizer, Computational Social Choice Theory Workshop (part of the conference *Foundations of Software Technology and Theoretical Computer Science* (FSTTCS), 2017), **IIT Kanpur**.
- 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.

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