

# Anay Mehrotra

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## Education

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### Yale University

PHD IN COMPUTER SCIENCE

Advisor: Nisheeth K. Vishnoi | Selected awards: Bunker Fellowship (2020-2021)

New Haven, USA  
Sep 2020 – Present

### Indian Institute of Technology Kanpur

BTECH, MAJOR IN COMPUTER SCIENCE AND ENGINEERING | GPA: 9.9/10

Selected awards: Sri Binay Kumar Sinha Award, Academic Excellence Award

Kanpur, India  
July 2016 – May 2020

### École Polytechnique Fédérale de Lausanne

EXCHANGE SEMESTER, COMPUTER SCIENCE

Lausanne, Switzerland  
Sep 2018 – Feb 2019

## Selected Honors and Awards

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- 2020 **Bunker Fellowship (2020-2021)** Awarded by Yale University to support graduate studies
- 2020 **Sri Binay Kumar Sinha Award** Awarded by IITK for the best research project that solves a problem affecting society
- 2019 **Best Student Paper** Workshop on Mechanism Design for Social Good, 2019
- 2018 **Academic Excellence Award** Awarded in all semesters at IIT Kanpur for excellence in academics
- 2016 **Top 0.5% in India** Rank 754 in Joint Entrance Exam Advanced among 180,000 candidates
- 2015 **Top 1.0% in State** National Standard Examinations in Astronomy and in Physics
- 2015 **KVPY Scholar** Awarded by the Department of Science and Technology, India

### Selected competitive programming awards

- 2020 **Qualified for ICPC World Finals** The event is postponed to 2021. (ICPCID)
- 2019 **Rank 1 at ICPC Asia WC Final** Represented IITK at the ICPC Asia West Continent Final among 50+ teams (ICPCID)
- 2019 **Rank 1 at ICPC Regional** Represented IITK at the ICPC Asia Gwalior-Pune Regional among 120+ teams (ICPCID)
- 2019 **Rank 1 at ICPC Regional** Represented IITK at the ICPC Asia Kharagpur Regional among 90+ teams (ICPCID)
- 2018 **Finalist at ICPC Regional** Represented EPFL at the ICPC Southwestern Europe Regional Contest (ICPCID)

## Publications

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- **Mitigating Bias in Set Selection with Noisy Protected Attributes**  
*Anay Mehrotra and L. Elisa Celis*  
Proceedings of the Conference on Fairness, Accountability, and Transparency (ACM FAccT 2021)  
– Accepted at the Workshop on Co-Development of Computer Science and Law, 2020
- **The Effect of the Rooney Rule on Implicit Bias in the Long Term**  
*L. Elisa Celis, Chris Hays, Anay Mehrotra, and Nisheeth K. Vishnoi*  
Proceedings of the Conference on Fairness, Accountability, and Transparency (ACM FAccT 2021)
- **Interventions for Ranking in the Presence of Implicit Bias**  
*L. Elisa Celis, Anay Mehrotra, and Nisheeth K. Vishnoi*  
Proceedings of The Conference on Fairness, Accountability, and Transparency 2020 (ACM FAT\* 2020)
- **Toward Controlling Discrimination in Online Ad Auctions**  
*L. Elisa Celis, Anay Mehrotra, and Nisheeth K. Vishnoi*  
Proceedings of the 36th International Conference on Machine Learning (ICML 2019).  
– Oral presentation and **Best Student Paper** at MD4SG, 2019  
– Accepted at the Stony Brook International Conference on Game Theory (GTCenter), 2019

## Selected Presentations

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- 2021 “The Effect of the Rooney Rule on Implicit Bias in the Long Term” at ACM FAccT’21 Online
- 2021 “Mitigating Bias in Set Selection with Noisy Protected Attributes” at ACM FAccT’21 Online
- 2020 “Matroid intersection” at the Special Interest Group in Computer Science (SIGTACS), IIT Kanpur Kanpur
- 2020 “Interventions for Ranking in the Presence of Implicit Bias” at ACM FAT\*’20 (renamed to ACM FAccT) Barcelona
- 2019 “Applications of Communication Complexity in Lower Bounds for Streaming Algorithms” at SIGTACS, IITK Kanpur
- 2019 “Toward Controlling Discrimination in Online Ad Auctions” at International Conference on Game Theory Stony Brook
- 2019 “Toward Controlling Discrimination in Online Ad Auctions” at Mechanism Design for Social Good (MD4SG’19) Phoenix

## Positions of Responsibility

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**Member of Organization Team** THE 1ST YALE WORKSHOP ON AI, ETHICS, AND SOCIETY, YALE

Apr 2019

**Student Guide** COUNSELLING SERVICE, IIT KANPUR

July 2017 - July 2018

## Teaching Experience

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**Academic Mentor** COUNSELLING SERVICE, IIT KANPUR

July 2017 - July 2018

- Conducted institute-wide remedial lectures for the introductory Electromagnetism and Waves course

## Technical Skills

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**Languages** C/C++, Python, Matlab (Basic), Java (Basic)

**Utilities** Bash,  $\text{\LaTeX}$ , HTML, CSS, Git, D3.js