Education

Yale University
PHD in Computer Science
Advisor: Nisheeth K. Vishnoi | Selected awards: Bunker Fellowship (2020-2021)

Indian Institute of Technology Kanpur
B.Tech, Major in Computer Science and Engineering | GPA: 9.9/10
Selected awards: Sri Binay Kumar Sinha Award, Academic Excellence Award

École Polytechnique Fédérale de Lausanne
Exchange Semester, Computer Science

Selected Honors and Awards

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
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 October 2021. (ICPCID)
2019  Rank 1 at ICPC Asia WC Finals  Represented IITK at the ICPC Asia West Continent Finals 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 EPFL at the ICPC Southwestern Europe Regional Contest (ICPCID)
2018  Finalist at ICPC Regional  Represented EPFL 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 and Preprints

• Fair Classification with Adversarial Perturbations
  L. Elisa Celis, Anay Mehrotra, and Nisheeth K. Vishnoi
  Preprint (2021)

• Mitigating Bias in Set Selection with Noisy Protected Attributes
  L. Elisa Celis and Anay Mehrotra
  Proceedings of the Conference on Fairness, Accountability, and Transparency (ACM FAccT 2021)

• 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
  (All publications list authors alphabetically)

Selected Presentations

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  Online
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  Online
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

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
President  Robotics Club, DPS R.K. Puram  May 2015 - May 2016

Teaching Experience

Teaching Fellow  CS Department, Yale University  Sep 2021 - Dec 2021
- Teaching fellow for “Algorithms via Continuous Optimization” (CPSC563) taught by Professor Nisheeth K. Vishnoi

Academic Mentor  Counselling Service, IIT Kanpur  July 2017 - July 2018
- Conducted institute-wide remedial lectures for the introductory Electromagnetism and Waves course

Technical Skills

Languages  C/C++, Python, Matlab (Basic), Java (Basic)  Utilities  Bash, \LaTeX, HTML, CSS, Git, D3.js