Vishwa Prakash HV

Résumé

✉ vishwa@cmi.ac.in
🌐 vishwaprakash.com

Education

2020–present	**Ph.D., Computer Science**, *Chennai Mathematical Institute*, Chennai, India., Supported by the TCS Fellowship. Ph.D. Advisor: Dr. Prajakta Nimbhorkar.
2018–2020 :	**M.Sc., Computer Science**, *Chennai Mathematical Institute*, Chennai, India. CGPA: 8.61 out of 10
2014–2018 :	**Bachelor of Engineering, Information Science & Engineering**, *Visvesvaraya Technological University*, Belgaum, India. Class: First Class with Distinction

Publications

2024   H. V. Vishwa Prakash and Prajakta Nimbhorkar. **Weighted Proportional Allocations of Indivisible Goods and Chores: Insights via Matchings.** In *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 2024.

2023   Aadityan Ganesh, Pratik Ghosal, H. V. Vishwa Prakash, and Prajakta Nimbhorkar. **Fair Healthcare Rationing to Maximize Dynamic Utilities**. In *Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)*, 2023.

2021   Aadityan Ganesh, H. V. Vishwa Prakash, Prajakta Nimbhorkar, and Geevarghese Philip. **Disjoint Stable Matchings in Linear Time**. In *Graph-Theoretic Concepts in Computer Science (WG)*, pages 94–105, Cham, 2021. Springer International Publishing.

Preprints

2023   Pratik Ghosal, Vishwa Prakash H. V., Prajakta Nimbhorkar, and Nithin Varma. **EFX Exists for Four Agents with Three Types of Valuations**, 2023. Accepted for presentation at GAIW 2024.

Work Experience

Feb - Apr 2023 :	**Visiting Researcher**, *Indian Institute of Technology, Delhi*, Worked on Discrete Fair Allocations, with Dr. Rohit Vaish
June - June 2023 :	**Visiting Researcher**, *University of Tokyo, Tokyo*, Worked on Discrete Fair Allocations, with Dr. Ayumi Igarashi

Other Projects

Mar 2018 :	**Detection of safety helmets and triple riding on two wheeler using SVM classifier**, B.Tech project, GitHub Link

Honors & Awards

Jun 2023 :	**Recipient of TCS Research Scholar Program Fellowship**, *TCS*, tcs-rsp

Mar 2024	**Receipient of ACM India - IARCS Travel Grant**, ACM, IARCS, (link)
Mar 2024	**Receipient of AAMAS Student Scholarship**, AAMAS 2024, (link)
Dec 2022 :	**Outstanding Poster Award**, *Winter School on Algorithms for Graphs and Games*, IIT Jodhpur
Mar 2022 :	**Recipient of Google Cloud Research Credits**, Google
Aug 2019 :	**MSc funded by Cognizant Foundation Scholarship for Promoting Excellence**, Cognizant
Apr 2017 :	**Completed with Gold Medal**, *Cisco® CCNA Routing and Switching: Connecting Networks*, as a pert of Cisco Networking Academy®

Talks Given

May 2024 :	**Proportional Allocations of Indivisible resources: Insights via Matchings**, at Knowledge Representation and Multiagent Systems Conventicle, UNSW and at AAMAS 2024, Auckland, Link to Slides
March 2023 :	**Proportional Allocations of Indivisible resources: Insights via Matchings**, at Dartmouth College, (Link to Recording)
Feb 2023 :	**Matching Techniques to Tackle Proportional Allocations**, at Indian Institute of Technology, Madras.
Sept 2023 :	**When Economics meets Graph Theory**, at Chennai Mathematical Institute, India
May 2023 :	**EFX Allocations for Four Agents with Three Types of Valuations**, at University of Tokyo, Japan
May 2023 :	**Fair Healthcare Rationing to Maximize Changing Utilities.**, at PAKDD 2023, Osaka, Japan
Mar 2023 :	**Diverse Stable Matching.**, at Indian Institute of Technology, Delhi, (also at WG 2021)

Professional Services

May 2023	**Reviewed Paper**, *The 16th International Symposium on Algorithmic Game Theory (SAGT)*, (link)
2023:	**Student organizer of Theory CS-Group Seminar Series-2023**, CMI, (link)
2022:	**Student organizer of Theory CS-Group Seminar Series-2022**, CMI, (link)

Teaching Assistantship

Jan 2022 :	**ACM India Winter School on Algorithms and Lower Bounds**, hosted by CMI & IIT-M, Chennai, Sponsored by National Academy of Sciences, India
Sept 2021 :	**TOC2021: Theory of Computation**, CMI
Apr 2021 :	**DMML2021: Data Mining and Machine Learning**, CMI
Aug 2020 :	**ADAL2020: Advanced Algorithms**, CMI
Aug 2020 :	**ALGO2019: Algorithms and Data Structures**, CMI

OpenSource Contributions

Apr 2018 :	**Contributed to OpenCV**, *Worked on Histogram of Oriented Gradients samples for OpenCV*

Mar 2020 : **Worked as Language Translator for the open source app My Expenses**, *Translated the app to Kannada*, My Expenses

2016 - 2023: **Active contributor on AskUbuntu**, *link*