

Divyarthi Mohan

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ACADEMIC POSITIONS

Tel Aviv University, CS Department AUG 2021 - Current
POSTDOCTORAL FELLOW
Host: Michal Feldman

Simons Institute for the Theory of Computing, Berkeley AUG 2022 - DEC 2022
J.P. MORGAN RESEARCH FELLOW
Program: Graph Limits and Processes on Networks

EDUCATION

2016 - 2021 **Princeton University**
PhD in COMPUTER SCIENCE
Advisor: S. Matthew Weinberg
*Thesis: Simplicity and Optimality in Algorithmic Economics:
Multi-Item Auctions and Social Learning*

2014 - 2016 **Institute of Mathematical Sciences, Chennai**
Master of Science in THEORETICAL COMPUTER SCIENCE
Advisor: Sayan Bhattacharya
Thesis: An Improved Dynamic Algorithm for Maximum b-Matching

2011 - 2014 **Indian Statistical Institute, Bangalore**
Bachelor of Mathematics (*Honours*)
First Class with Distinction

RESEARCH

I am broadly interested in Algorithms and Algorithmic Game Theory. My current research interests include Algorithmic Mechanism Design, Opinion Dynamics in Social Networks, Strategic Communication, and Online Algorithms.

PUBLICATIONS

Interdependent Public Projects

with Avi Cohen, Michal Feldman, Inbal Talgam-Cohen
To appear in the *Symposium on Discrete Algorithms* (SODA 2023).

Simple Mechanisms for Welfare Maximization in Rich Advertising Auctions

with Gagan Aggarwal, Kshipra Bhawalkar, Aranyank Mehta, Alexandros Psomas
Advances in Neural Information Processing Systems (NEURIPS 2022).

Asynchronous Majority Dynamics in Preferential Attachment Trees

with Maryam Bahrani, Nicole Immorlica, S. Matthew Weinberg
International Colloquium on Automata, Languages and Programming (ICALP 2020).

Approximation Schemes for a Unit-Demand Buyer with Independent Items via Symmetries

with Pravesh Kothari, Ariel Schwartzman, Sahil Singla, S. Matthew Weinberg
Symposium on Foundations of Computer Science (FOCS 2019).

Improved Algorithm for Dynamic b-Matching

with Sayan Bhattacharya, Manoj Gupta
European Symposium on Algorithm (ESA 2017).

PREPRINTS

Communicating with Anecdotes

with Nika Haghtalab, Nicole Immorlica, Brendan Lucier, Markus Mobius
Preprint 2022.
(Persuading with Anecdotes, NBER working paper 2021)

AWARDS & FELLOWSHIPS

Simons-Berkeley Research Fellowship, FALL 2022
The Simons Institute for the Theory of Computing

Siebel Scholarship, Class of 2021
Thomas and Stacey Siebel Foundation

SEAS Award for Excellence, 2019
School of Engineering and Applied Science, Princeton University

Graduate Student Teaching Award, 2018
Department of Computer Science, Princeton University

INTERNSHIPS & LONG-TERM VISITS

- SUMMER 2020 **Google**, Mountain View
Research Intern
Mentor: Kshipra Bhawalkar
Project: Rich Ad Auctions
- SEP - OCT 2019 **Simons Institute for the Theory of Computing**, Berkeley
Visiting Graduate Student
Program: Online and Matching-Based Market Design
- SUMMER 2019 **Microsoft Research**, New England
Research Intern
Mentors: Nicole Immorlica and Brendan Lucier
Project: Communication and Misinformation via Anecdotes

INVITED TALKS & SELECTED PRESENTATIONS

- Communicating with Anecdotes**
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| INFORMS Annual Meeting | OCT 2022 |
| The Simons Institute Meet the Fellows Workshop | SEP 2022 |
| Technion Game Theory Seminar | APR 2022 |
- Simple Mechanisms for Welfare Maximization in Rich Advertising Auctions**
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| Purdue CS Theory Seminar | OCT 2022 |
| Marketplace Innovation Workshop (MIW) | MAY 2022 |
- Simplicity and Optimality in Multi-Item Auctions**
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| TTIC Talks | OCT 2022 |
| UIUC Theory Seminar | OCT 2022 |
| CMU Theory Lunch Seminar | JAN 2022 |
| Georgia Tech ACO Student Seminar | JAN 2022 |
| Tel Aviv University Algorithms Seminar | DEC 2021 |

The Israel Algorithmic Game Theory Seminar	NOV 2021
Rutgers CS Theory Seminar	NOV 2021
Purdue CS Theory Seminar	OCT 2021
Simplicity and Optimality in Multi-Item Auctions & Strategic Communication	
Harvard EconCS Seminar	NOV 2021
Approximation Schemes for Revenue Maximization via Symmetries	
Young Researcher Workshop on Economics and Computation, Tel Aviv	JAN 2020

TEACHING

SPRING 2018	Economics and Computation (COS 445) Teaching Assistant, Princeton University
FALL 2017	Advanced Algorithm Design (COS 521) Teaching Assistant, Princeton University
SUMMER 2015	Data Structures Tutorials Teaching Assistant, Institute of Mathematical Sciences

SERVICE

Program Committee	WINE 2021, EC 2022, ESA 2022
Conference Reviewer	ITCS, SODA, WINE, EC, ESA, ICALP, STOC
Journal Reviewer	Artificial Intelligence, Management Science, Mathematics of Operations Research
SafeToC Advocate	EC

MENTORSHIP

EC 2022	AGT Mentoring Workshop Conference on Economics and Computation Mentor and Volunteer
WINE 2021	Mentorship Program Conference on Web and Internet Economics Mentor
EC 2020	AGT Mentoring Workshop Conference on Economics and Computation Mentor and Volunteer
SPRING 2018	Undergraduate Independent Research by Maryam Bahrani Mentor

LEADERSHIP

2020 & 2019	Graduate College Housing Committee , Princeton Facilities Chair
2017 - 2018	Association of South Asians at Princeton Events and Social Chair
2017 - 2021	Research Inclusion Social Event Department of Computer Science, Princeton Member and Volunteer