

Divyarthi Mohan

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ACADEMIC POSITIONS

Tel Aviv University, CS Department
POSTDOCTORAL FELLOW
Host: Michal Feldman

AUGUST 2021 - Current

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

AUGUST 2022 - Current

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
To appear in *Conference on 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 Schvartzman, 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

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

Purdue CS Theory Seminar

OCT 2022

Marketplace Innovation Workshop (MIW)

MAY 2022

Simplicity and Optimality in Multi-Item Auctions

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