Divyarthi Mohan

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CURRENT POSITION

Tel Aviv University   AUGUST 2021 - Current
POSTDOCTORAL FELLOW, supervised by Michal Feldman

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, and Online Algorithms.

PUBLICATIONS & MANUSCRIPTS

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).

Communicating with Anecdotes
with Nika Haghtalab, Nicole Immorlica, Brendan Lucier, Markus Mobius
In Submission.

Simple Mechanisms for Welfare Maximization in Rich Advertising Auctions
with Gagan Aggarwal, Kshipra Bhawalkar, Aranyank Mehta, Alexandros Psomas
In Submission.

Interdependent Public Projects
with Avi Cohen, Michal Feldman, Inbal Talgam-Cohen
In Submission.

Awards

Siebel Scholar, 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: Social Learning via Anecdotes

Invited Talks

Simplicity and Optimality in Multi-Item Auctions

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
FALL 2017	Advanced Algorithm Design (COS 521) Teaching Assistant

SERVICE

Program Committee	WINE 2021, EC 2022, ESA 2022
Conference Reviewer	ITCS, SODA, WINE, EC, ESA, ICALP, STOC
Journal Reviewer	Artificial Intelligence

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
EC 2020	**AGT Mentoring Workshop** Conference on Economics and Computation (EC) Student Mentor
WINE 2021	**Mentorship Program** Conference on Web and Internet Economics (WINE) Mentor