

Divyarthi Mohan

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CURRENT POSITION

Tel Aviv University
POSTDOCTORAL FELLOW, supervised by Michal Feldman

AUGUST 2021 - 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, 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 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).

Persuading 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.

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	
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

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 - Current **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