

# Divyarthi Mohan

Blavatnik School of Computer Science, Tel Aviv University  
+1 (609) 721-0865 [divyarthim@tau.ac.il](mailto:divyarthim@tau.ac.il)  
[divyarthi.github.io/](https://divyarthi.github.io/)

## CURRENT POSITION

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**Tel Aviv University**  
POSTDOCTORAL FELLOW, supervised by Michal Feldman

AUGUST 2021 - Current

## EDUCATION

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- 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

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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

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**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).*

**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

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**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

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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

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**Communicating with Anecdotes**

Technion Game Theory Seminar

APR 2022

**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

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SPRING 2018    Economics and Computation (COS 445)  
Teaching Assistant

FALL 2017    Advanced Algorithm Design (COS 521)  
Teaching Assistant

## SERVICE

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**Program Committee**    WINE 2021, EC 2022, ESA 2022

**Conference Reviewer**    ITCS, SODA, WINE, EC, ESA, ICALP, STOC

**Journal Reviewer**    Artificial Intelligence

## LEADERSHIP

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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