

# Alon Eden

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## POSITIONS

### HARVARD UNIVERSITY

POSTDOCTORAL FELLOW

September 2019 – present | Hosted by Yiling Chen and David Parkes

## EDUCATION

### TEL AVIV UNIVERSITY

PH.D. IN COMPUTER SCIENCE

2019 | Advisors: Michal Feldman and Amos Fiat

M.Sc IN COMPUTER SCIENCE

2014 | Advisor: Amos Fiat | MAGNA CUM LAUDA

B.Sc IN COMPUTER SCIENCE AND PSYCHOLOGY

2010 | CS: MAGNA CUM LAUDA

## AWARDS AND RECOGNITION

- BEST PRESENTATION BY A STUDENT OR POSTDOCTORAL RESEARCHER - HONORABLE MENTION, EC 2019.
- BEST PAPER WITH A STUDENT LEAD AUTHOR AWARD AT EC 2019.
- THE 2019 MICHAEL B. MASCHLER PRIZE TO AN OUTSTANDING RESEARCH STUDENT IN GAME THEORY AND RELATED TOPICS IN ISRAEL.
- BSF 2018 TRAVEL AWARD (4000 USD).
- PARTICIPANT IN CHINA THEORY WEEK 2017 – A CONFERENCE GATHERING TOP TCS STUDENTS.
- BEST PAPER AWARD AT SAGT 2017.
- FINALIST OF THE 2017 FACEBOOK FELLOWSHIP.
- MEMORIAL DAY AWARD OF EXCELLENCE 2010, COMPUTER SCIENCE DEPARTMENT, TEL-AVIV UNIVERSITY.
- DEAN'S LIST OF EXCELLENCE 2009, TEL AVIV UNIVERSITY.

## PUBLICATIONS

1. Alon Eden, Michal Feldman, Amos Fiat, Kineret Segal  
An Economics-Based Analysis of RANKING for Online Bipartite Matching  
**SOSA 2021**
2. Ben Berger, Alon Eden, Michal Feldman  
On the Power and Limits of Dynamic Pricing in Combinatorial Markets  
**WINE 2020**
3. Alon Eden, Uriel Feige, Michal Feldman  
Max-Min Greedy Matching  
**APPROX 2019**  
SPECIAL ISSUE OF SELECTED APPROX 2019 PAPERS IN THEORY OF COMPUTING (TOC), MINOR REVISION.
4. Ilan Reuven Cohen, Alon Eden, Amos Fiat and Lukasz Jez  
Dynamic Pricing of Servers on Trees  
**APPROX 2019**
5. Alon Eden, Michal Feldman, Amos Fiat, Kira Goldner, Anna R. Karlin  
Combinatorial Auctions with Interdependent Valuations: SOS to the Rescue  
**EC 2019.**  
Best Paper with a Student Lead Author Award.

6. Alon Eden, Michal Feldman, Amos Fiat, Tzahi Taub  
Truthful Prompt Scheduling for Minimizing Sum of Completion Times  
**ESA 2018**
7. Alon Eden, Michal Feldman, Amos Fiat, Kira Goldner  
Interdependent Values without Single-Crossing  
**EC 2018**
8. Alon Eden, Michal Feldman, Adi Vardi  
Online Random Sampling for Budgeted Settings  
**SAGT 2017.**  
Best Paper Award.  
**SPECIAL ISSUE OF SELECTED SAGT 2017 PAPERS IN THEORY OF COMPUTING SYSTEMS (TOCS).**
9. Alon Eden, Tomer Ezra, Michal Feldman  
Pricing Social Goods  
**ESA 2017**
10. Alon Eden, Michal Feldman, Ophir Friedler, Inbal Talgam-Cohen and S. Matthew Weinberg  
The Competition Complexity of Auctions: A Bulow-Klemperer Result for Multi-Dimensional Bidders  
**EC 2017**
11. Alon Eden, Michal Feldman, Ophir Friedler, Inbal Talgam-Cohen and S. Matthew Weinberg  
A Simple and Approximately Optimal Mechanism for a Buyer with Complements  
**EC 2017**  
**MINOR REVISION, OPERATIONS RESEARCH (OR).**
12. Vincent Cohen-Addad, Alon Eden, Michal Feldman and Amos Fiat  
The Invisible Hand of Dynamic Market Pricing  
**EC 2016**
13. Shaddin Dughmi, Alon Eden, Michal Feldman, Amos Fiat and Stefano Lenoardi  
Lottery Pricing Equilibria  
**EC 2016**
14. Ilan Reuven Cohen, Alon Eden, Amos Fiat and Lukasz Jez  
Pricing Online Decisions: Beyond Auctions  
**SODA 2015**

## ACADEMIC VISITS

### LA SAPIENZA UNIVERSITY OF ROME

Hosted by Stefano Leonardi, April. 2018.

### UNIVERSITY OF WASHINGTON

Hosted by Anna Karlin, Sep. 2018.

### SIMONS INSTITUTE FOR THE THEORY OF COMPUTATION

Participated in the "Algorithms and Uncertainty" program as a visiting student researcher, Aug.-Oct., 2016.

### ÉCOLE NORMALE SUPÉRIEURE PARIS AND UNIVERSITÉ PARIS DIDEROT,

Hosted by Claire Mahieu and Adi Rosén, Aug.-Oct., 2014.

## TALKS

### DYNAMIC PRICING OF SERVERS ON TREES

APPROX 2019 | MIT, September 2019.

### COMBINATORIAL AUCTIONS WITH INTERDEPENDENT VALUATIONS: SOS TO THE RESCUE

INFORMS Annual Meeting 2020 | Online Session

EC 2019 spotlight talk | FCRC, Phoenix, June 2019

EconCS Seminar | Harvard University, October, 2019

### MAX-MIN GREEDY MATCHING

Theory Seminar | Allen School of CS, University of Washington, October 2018.  
Advanced Algorithms Seminar | Tel Aviv University, Dec 2018.  
NetEcon 2019 | FCRC, Phoenix, June 2019.  
APPROX 2019 | MIT, September 2019.

#### **INTERDEPENDENT VALUES WITHOUT SINGLE-CROSSING**

EC 2018 | Cornell University, June 2018.  
COST Workshop on Algorithmic Game Theory | Sapienza Universita di Roma, March 2018, invited speaker.

#### **THE COMPETITION COMPLEXITY OF AUCTIONS: A BULOW-KLEMPERER RESULT FOR MULTI-DIMENSIONAL BIDDERS**

China Theory Week 2017 | Shanghai University of Finance and Economics, July 2017, invited speaker.  
EC 2017 | MIT, June 2017.  
Highlights of Algorithms conference (HALG) 2017 | TU Berlin, June 2017.  
Computation and Economics Seminar 2017 | Hebrew University of Jerusalem, April 2017.

#### **THE INVISIBLE HAND OF DYNAMIC MARKET PRICING**

EC 2016 | Maastricht, July 2016.

#### **LOTTERY PRICING EQUILIBRIA**

EC 2016 | Maastricht, July 2016.

#### **PRICING ONLINE DECISIONS: BEYOND AUCTIONS**

SODA 2015 | San Diego, Jan 2015.  
Advanced Algorithms Seminar | Tel Aviv University, Dec 2014.

## SERVICE

#### **PROGRAM COMMITTEE MEMBER**

1st Workshop on Mechanism Design for Social Good (MD4SG'17).  
20th ACM conference on Economics and Computation (ACM EC'19).  
21th ACM conference on Economics and Computation (ACM EC'20).  
35th AAAI conference on Artificial Intelligence (AAAI'21).

#### **REVIEWER**

Operations Research (OR), Mathematics of Operations Research (MOR), Theory of Computing Systems (TOCT), STOC, SODA, EC, WINE, SAGT, WWW, AAAI, MFCS.

## TEACHING

Algorithms | Tel Aviv University, 2017-2018.

Discrete Math | Tel Aviv University, 2015-2016.

C for Engineers | Tel Aviv University, 2014.

## EMPLOYMENT

#### **INFORMATION IMAGE TECHNOLOGIES (IIT) | ALGORITHM AND SOFTWARE ENGINEER**

2011 – 2014 | Petah Tikva, Israel

#### **BIOINFORMATICS LAB OF PROF. EITAN RUPPIN | RESEARCH INTERN**

2010 | Tel Aviv University, Israel

#### **ZORAN MICROELECTRONICS | SOFTWARE ENGINEER**

2007 - 2009 | Kfar Netter, Israel

#### **ELITE TECHNOLOGICAL UNIT, IDF | SOFTWARE ENGINEER**

2001 - 2005

## LANGUAGES

## Programming

C, C++, Python

## Spoken & Written

Hebrew (native), English (fluent)