Ilan Reuven Cohen

Curriculum Vitae

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Research Interests

My main research interest lies in the theory of algorithms. Specifically, in the areas of approximation, randomized and online algorithms with game theoretic aspects. My research goal is to develop new algorithmic techniques that improve and simplify our understanding of fundamental problems in computer science.

Education

Tel Aviv University.   2011–2016
Advisor: Prof. Yossi Azar
Dissertation: Online Packing and Covering Problems
Ph.D. in Computer Science

Tel Aviv University.   2008–2010
Advisor: Prof. Yossi Azar
Dissertation: Prompt Mechanisms for Bounded Capacity Auction
M.A in Computer Science

Magna Cum Laude.
GPA – 94.

Technion - Israel Institute of Technology.   2001–2004
B.A in Computer Science

Cum Laude.
GPA – 90.

Experience

Bar Ilan University   2020-present
Faculty Member in the Faculty of Engineering

Jether Energy   2019-2020
Researcher

**Centrum Wiskunde & Informatica
 in Amsterdam**   2018-2019
Postdoctoral research fellow

**Carnegie Mellon University and
 University of Pittsburgh**   2017-2018
Postdoctoral research fellow

	Simons-Berkeley and	2016-2017
	I-CORE(Israel research excellence center)	
	Postdoctoral research fellow	

	Yahoo, New York	2016
	Algorithm designer, summer intern	
	Developed algorithms for ads allocation.	

	LMY R&D, Tel Aviv	2010−2016
	Algorithm designer	
	Developed Computer Vision and Optimization algorithms	

| | **I.D.F.** | 2004-2010 |
| | Algorithm designer | |

Teaching | **Tel Aviv University** | 2013-2016
| | Teaching assistant in Algorithms |

Programming Skills | **C++, C#, Java, Matlab**
| | Advanced Skills

Honors and Awards | **The Fulbright Post-doctoral Scholar Fellowship**
| | 2017
| | **The Jorge Deutsch Prize**
| | 2016
| | **The Gutwirth foundation scholarships**
| | 2015

Noteworthy Activities | **Volunteer math instructor, in Educating for Excellence program.**
| | 2007-2008

Languages | **Hebrew**
| | Mother tongue
| | **English**
| | Fluent

Workshops	**The Greece Economic and Algorithmic Theory Week**	2014
	Paros, Greece	
	Summer school on Algorithmic Game Theory	2012
	Samos, Greece	

Publications:

Online Two-Dimensional Load Balancing.

I.R. Cohen, Sungjin Im, Debmalya Panigrahi

International Colloquium on Automata, Languages, and Programming, **ICALP 2020.**

Tight Bounds for Online Edge Coloring.

I.R. Cohen, B. Peng, D. Wajc

IEEE Symposium on Foundations of Computer Science, **FOCS 2019**.

Stochastic Graph Exploration.

A. Anagnostopoulos, I.R. Cohen, S. Leonardi, J. Łącki

International Colloquium on Automata, Languages, and Programming, **ICALP 2019**.

Dynamic Pricing of Servers on Trees.

I.R. Cohen, A. Eden, A. Fiat, L. Jez

Workshop on Approximation Algorithms for Combinatorial Optimization Problems, **APPROX 2019**.

Randomized Algorithms for Online Vector Load Balancing.

Y. Azar , I.R. Cohen, D. Panigrahi

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2018**.

Randomized Online Matching in Regular Graphs.

I.R. Cohen, D. Wajc

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2018**.

Online Algorithms for Packing and Covering Problems with Convex Objectives.

Y. Azar , I.R. Cohen, D. Panigrahi (Joint submission with two other groups)

IEEE Symposium on Foundations of Computer Science, **FOCS 2017**.

Online Lower Bounds via Duality.

Y. Azar , I.R. Cohen, A. Roytman

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2017**.

Packing Small Vectors.

Y. Azar , I.R. Cohen, A. Fiat, A. Roytman

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2016**.

Serving in the Dark should be done Non-Uniformly.

Y. Azar, I.R. Cohen

Automata, Languages, and Programming International Colloquium, **ICALP 2015**.

Pricing Online Decisions: Beyond Auctions.

I.R. Cohen, A. Eden, A. Fiat, L. Jez

ACM-SIAM Symposium on Discrete Algorithms, **SODA 2015**.

Tight Bounds for Online Vector Bin Packing.

Y. Azar, I.R. Cohen, S. Kamara and B. Shepherd

Symposium on Theory of Computing Conference, **STOC 13**.

The Loss of Serving in the Dark.

Y. Azar, I.R. Cohen and I. Gamzu

Symposium on Theory of Computing Conference, **STOC 13**.

Manuscripts:

Contention Resolution Revisited.

N. Bansal, I.R. Cohen

Online Two-dimensional Load Balancing.

I.R. Cohen, S. Im, D. Panigrahi

Tight Bounds for Bounded Online Matching.

I.R. Cohen, B. Peng