

Ilan Reuven Cohen

Curriculum Vitae

+ (972) 547-620640
ilanRcohen@gmail.com

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

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

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

**Simons-Berkeley and
I-CORE (Israel research excellence center)** 2016-2017
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 full photogrammetry library: multi-model support, images parameters optimization, photogrammetry products.

Computer vision: feature matching, pattern recognition, image matching via graph cuts

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

Publications:

Tight Bounds for Online Edge Coloring.

I.R. Cohen, Binghui Peng, David Wajc

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

Stochastic Graph Exploration.

Aris Anagnostopoulos, Ilan R. Cohen, Stefano Leonardi, Jakub Łącki

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

Dynamic Pricing of Servers on Trees.

Ilan R. Cohen, Alon Eden, Amos Fiat, Lukasz 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**.
