

# Curriculum Vitae

Eran Ofek

## Personal Details

Name: Eran Ofek  
Address: 35/1 Moskovitch st. Rehovot 76468, Israel  
Home Phone: +972-8-9474894  
Cell Phone: +972-50-7805562  
Email: [eran.ofek@weizmann.ac.il](mailto:eran.ofek@weizmann.ac.il)  
Home Page: <http://www.wisdom.weizmann.ac.il/~erano>  
Citizenship: Israeli

## Professional Interests

My main interest is in developing algorithms (in general) and in particular heuristics for optimization problems. Specifically, I am interested in approximation algorithms, average case analysis of algorithms in random/semi-random models. I am also interested in Crypto, security and networking.

## Education

2002 - present: Weizmann Institute of Science (Rehovot, Israel)  
**Ph.D. in Computer Science**  
Thesis: Rigorous Analysis of Heuristics for NP-hard Optimization Problems.  
Advisor: Prof. Uriel Feige

2000 - 2001: Weizmann Institute of Science (Rehovot, Israel)  
**M.Sc. in Computer Science**  
Thesis: Maximum Edge Coloring with a Bounded Number of Colors.  
Advisor: Prof. Uriel Feige

1997 - 1999: Tel-Aviv University (Tel-Aviv, Israel)  
**B.Sc. in Mathematics and Computer Science**  
Magna Cum Laude

## Awards

- 1998: Dean's honor list, Faculty of Exact Sciences, Tel-Aviv University.
- 1999: Dean's honor list, Faculty of Exact Sciences, Tel-Aviv University.

## Refereed papers

1. Uriel Feige, Eran Ofek, Udi Wieder. Approximating Maximum Edge Coloring in Multigraphs. In *Proceedings of the 5th International Workshop on Approximation Algorithms for Combinatorial Optimization, (APPROX) 2002* 108-121.
2. Uriel Feige, Eran Ofek. Spectral Techniques Applied to Sparse Random Graphs. *Random Structures and Algorithms*, 27(2), 251–275, September 2005.
3. Uriel Feige, Eran Ofek. Easily Refutable Subformulas of Large Random 3CNF Formulas. In *The 31st International Colloquium on Automata, Languages and Programming (ICALP), 2004* 519-530.
4. Omer Angel, Itai Benjamini, Eran Ofek and Udi Wieder. Routing Complexity of Faulty Networks. In *Proceedings of the Twenty-Fourth Annual ACM Symposium on Principles of Distributed Computing (PODC) 2005* 209-217.
5. Uriel Feige, Eran Ofek. Finding a Maximum Independent Set in a Sparse Random Graph. In *Proceedings of the 8th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems, and 9th International Workshop on Randomization and Computation (RANDOM-APPROX) 2005* 282-293.

## Papers in preparation

1. Eran Ofek. On the Expansion of the Giant Component in Percolated  $(n, d, \lambda)$  Graphs. Submitted to journal, available at arxiv math.PR/0509253.
2. Uriel Feige, Eran Ofek. Sparse Random 3-cnf Formulas Elude the Lovasz Theta Function.
3. Itai Benjamini, Eran Ofek. Almost Great Cycles in Sparse Random Graphs.

## Academic Professional Activities

- **Journal Refereeing:** Journal of Algorithms, Random Structures and Algorithms, Combinatorics Probability and Computing, Theory of Computing.
- **Conference Refereeing:** STOC 2003, STOC 2004.

## Working Experience

- 2004 (One month), Microsoft, Redmond. Consulting researcher.
- 1996, K.I.S. , Network administrator. Part of the work to maintain and extend the communication network. This included handling communication components such as routers, LAN switches and computers. Additional part was defining the security in the network level.

I have taught several courses for graduate and undergraduate students. I was also the course coordinator for a couple of graduate courses in the Open university.

- *The Open University of Israel*,  
Coordinator and Teacher of the graduate course *Randomized Algorithms*,  
Fall 2006.  
Teacher of the graduate course *Selected topics in algorithms*,  
Fall 2005, Spring 2005, Fall 2004, Spring 2004, Summer 2004, Spring 2003, Summer 2003.
- *Tel-Aviv College*,  
Teacher of the course *Introduction to Algorithms*,  
Fall 2003, Summer 2002.  
Teacher Assistant of the course *Introduction to Computer Science in C*,  
Fall 2002, Spring 2002.
- *Tel-Aviv University*,  
Exercise grader of the courses *Algebra 1, Complex Functions, Software Project*.  
1999.

## Military Service

November 1991 - November 1995. Data-communication expert, signal corps. During this period I examined various communication equipments such as routers, modems, LAN switches, multiplexers and other Military communication equipment.

## Computer Related Skills

- I have Programmed various projects using:  
Matlab,C, C++, Java, Delphi-Pascal, Visual Basic, Fortran.
- Networking: good knowledge of communication protocols and standards.

## Talks

- *APPROX conference*, Rome, Italy. September 2002.
- *CS Seminar*, The Weizmann Institute, Israel. June 2004.
- *ICALP Conference*, Turku Finland. July 2004.
- *CS Theory Seminar*, The Hebrew University, Israel. November 2004.