

Curriculum Vitae

Ori Gurel-Gurevich

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Research interests: Probability theory, especially random walks, percolation and random graphs.

Education:

PhD Student in Probability at the Weizmann Institute of Science, Israel, (2008). PhD thesis title: "Random walks and Random Structures". PhD advisor: Prof. Itai Benjamini.

MSc in Mathematics from Tel-Aviv University (2003, magna cum laude). M.Sc. Thesis title: "Pursuit-Evasion Games with Incomplete Information in Discrete Time". M.Sc. Advisor: Prof. Eilon Solan.

BSc in Mathematics with minor in Computer Science from Tel-Aviv University (1993, summa cum laude).

Work Experience:

2008-2010: Microsoft Research - Theory Group (postdoc researcher)

2002-2005: IDF Intelligence Corps - Mathematical Research and Development (consultant).

1994-2000: IDF Intelligence Corps - Mathematical Research and Development (latest position: project leader).

Teaching Experience:

Fall 2007/8 Graduate course on Markov chains mixing times, Weizmann Institute of Science

Fall 2005/6 Graduate course on random walks and percolation, Weizmann Institute of Science

Fall 2003/4 Undergraduate course in calculus for economists, Tel-Aviv University

Awards:

2007 Otto Schwartz Fellowship for Ph.D. Studies, Feinberg Graduate School, Weizmann Institute of Science.

1990-1993 Three annual Deans list awards, Faculty of Exact Sciences, Tel Aviv University.

Publications and Preprints:

1. I. Benjamini and O. Gurel-Gurevich: *Almost Sure Recurrence of the Simple Random Walk Path* (**unpublished, see below**)
2. I. Benjamini, O. Gurel-Gurevich and R. Lyons, (2007) *Recurrence of Random Walk Traces* (*Annals of Probability*, **35**, no. 2, 732-738)
3. I. Benjamini, O. Gurel-Gurevich and B. Solomyak: *Branching random walk with exponentially decreasing steps, and stochastically self-similar measures* (*Transactions of the AMS*, **361** (2009), no. 3, 1625-1643)

4. I. Benjamini, O. Gurel-Gurevich and R. Izkovsky: *The Biham-Middleton-Levine traffic model for a single junction* ("In and out of equilibrium: probability with physics flavor II (2008)", Birkhauser's "Progress in Probability" series, edited by ME Vares, V Sidoravicius)
5. G. Amir, O. Gurel-Gurevich, E. Lubetzky and A. Singer: *Giant components in biased graph processes* (**Submitted**)
6. G. Amir and O. Gurel-Gurevich: *The diameter of random cayley graphs on Z_q* (**Groups – Complexity – Cryptology, to appear**)
7. O. Gurel-Gurevich: *Pursuit-Evasion Games with Incomplete Information in Discrete Time* (*International Journal of Game Theory*, **38** (2009), no. 3, 367-376)
8. G. Amir, I. Benjamini, O. Gurel-Gurevich and G. Kozma: *Random walk in changing environment* (**In preparation**).
9. I. Benjamini, O. Gurel-Gurevich and G. Kozma: *Critical Cluster-Contracting Percolation* (**In preparation**)
10. I. Benjamini, O. Gurel-Gurevich and R. Peled: *K-wise Independent Distributions, Boolean Functions and Percolation* (**In preparation**)
11. O. Angel, I. Benjamini, O. Gurel-Gurevich, T. Meyerovitch and R. Peled: *Stationary map coloring* (**submitted**)
12. I. Benjamini, O. Gurel-Gurevich and O. Schramm: *Cutpoints and resistance of random walk paths* (**submitted**)
13. N. Alon, O. Gurel-Gurevich and E. Lubetzky: *Choice-memory tradeoff in allocations*(**Annals of Applied Probability, to appear**)(FOCS 2009)
14. G. Amir and O. Gurel-Gurevich: *On Fixation of Activated Random Walks* (**submitted**)
15. O. Gurel-Gurevich and R. Peled: *Poisson Thickening* (**in preparation**)
16. O. Gurel-Gurevich and A. Nachmias: *Nonconcentration of return times* (**in preparation**)
17. I. Benjamini, O. Gurel-Gurevich and H. Kesten: *Recurrence of Coalescing Random Walks* (**in preparation**)

Additional Information:

Languages: Hebrew (native), English (fluent).

Programming Languages: C, Pascal, some C++, some python.