Contact Information

Name	Dan (Danny) Vilenchik
Office Address	School of Computer Science, Tel Aviv University, Tel Aviv 69978, Israel
Office Phone	972-3-640-5398
Home Address	9 Carmel street, Rehovot 76305, Israel
Cellular Phone	972-54-9399504
Homepage	www.cs.tau.ac.il/~vilenchi
Email	vilenchi@post.tau.ac.il, danny.vilenchik@gmail.com
Citizenship	Israeli, Lithuanian (EU)

Fields of Interest

Average case analysis, probabilistic methods in computer science, phase transitions and threshold phenomena, random structures (in particular random k-SAT and k-colorability problems), message passing algorithms.

Education

2004 - present   PhD Student in Computer Science, Tel Aviv University

Research Advisor	Prof. Michael Krivelevich
PhD Title	Algorithms for Random and Semi-Random Distributions
Expected Graduation	September 2008

2001 - 2004   M.Sc in Computer Science, The Weizmann Institute of Science, Israel

Research Advisor	Prof. Uriel Feige
Thesis title	Finding Satisfying Assignments for Semirandom Satisfiable 3CNF Formulas

1998-2001   B.Sc in Computer Science, Technion, Israel, *Magna Cum Laude*

Internships

07/2007-09/2007 Summer Internship in the Theory Group, Microsoft Research, Redmond, WA

09/2006   Algorithms and Complexity group, Humboldt-Universität zu Berlin

Awards   *Dean's Excellence Fellowship*, Faculty of Exact Sciences, Tel-Aviv University, 2007.

Work Experience

2006 – present	Teaching Assistant in course Discrete Mathematics in Tel Aviv University
Courses taught	Introduction to Logic and Set Theory, Data Structures, Algorithms, Automata Theory, Computability and Complexity Theory
Where I taught?	Tel Aviv University, The Open University, Shenkar College, The Academic College
2001 - 2004	Algorithms Developer and Software Engineer in an Israeli start-up company
1998-2001	C++ and Java Guide and Course Developer in Youth@Science, The Weizmann Institute.

Publication List

1. D. Vilenchik. *It's all about the support: a new perspective on the satisfiability problem*. JSAT (Journal on Satisfiablity, Boolean Modelling, and Computation), Volume 3, pages 125-139, 2007.

2. A. Coja-Oghlan, M. Krivelevich, and D. Vilenchik. *Why almost all k-colorable graphs are easy*. In Proceedings of the 24th International Symposium on Theoretical Aspects of Computer Science (STACS), pages 121-132, 2007.

3. S. Ben-Simon and D. Vilenchik. *Message passing for the coloring problem: Gallager meets Alon and Kahale.* In Proceedings of the 13th International Conference on Analysis of Algorithms (AofA), 2007.

4. A. Coja-Oghlan, M. Krivelevich, and D. Vilenchik. *Why almost all k-CNF formulas are easy.* In Proceedings of the 13th International Conference on Analysis of Algorithms (AofA), 2007.

5. M. Krivelevich and D. Vilenchik. *Solving Random Satisfiable 3CNF Formulas in Expected Polynomial Time.* Proc. 16th ACM-SIAM Symp. on Discrete Algorithms (SODA), pp. 454--463, 2006.

6. U. Feige, E. Mossel and D. Vilenchik. *Complete convergence of message passing algorithms for some satisfiability problems.* In Proceedings of Random 2006, LNCS 4110 Springer, 339--350, 2006.

7. M. Krivelevich and D. Vilenchik. *Semirandom Models as Benchmarks for Coloring Algorithms.* Third Workshop on Analytic Algorithmics and Combinatorics (ANALCO), pp. 211--221, 2006.

8. U. Feige and D. Vilenchik. *A Local Search Algorithm for 3SAT.* Technical Report MCS 04-07, Comp. Sci. and Applied Math., Weizmann Institute of Science, 2004.

9. D. Vilenchik. *Finding a Satisfying Assignment for Semirandom Satisfiable 3CNF Formulas*. Master Thesis. The Weizmann Institute of Science, 2004.

Computer Skill   Extensive programming experience in C, C++ and Java

References

Prof. Noga Alon
  School of Computer Sciences, Sackler Faculty of Exact Sciences, Tel Aviv University, Tel Aviv 69978,
  Israel.
  Email: nogaa@post.tau.ac.il   Phone: +972 3 6408395

Prof. Uriel Feige
  Department of Computer Science and Applied Mathematics, the Weizmann Institute, Rehovot 76100,
  Israel.
  Email: : uriel.feige@weizmann.ac.il   Phone +972 8 9344122

Prof. Michael Krivelevich.
  School of Mathematical Sciences, Sackler Faculty of Exact Sciences, Tel Aviv University, Tel Aviv 69978,
  Israel.
  Email: krivelev@post.tau.ac.il   Phone: +972 3 6405366

Prof. Elchanan Mossel
  Department of Statistics, University of California at Berkeley, Berkeley, CA 94720, USA.
  Email: mossel@stat.berkeley.edu   Phone: : +1 510 643 3799