

Klim Efremenko

Curriculum Vitae

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Personal Details

Gender Male
Born August 9th, 1982, Alma-Ata, USSR
Marital status Married

Research Interests

I have a broad interest in Theoretical Computer Science and Coding Theory. The primary focus of my research is Locally Decodable Codes.

Education

- Since 2009 **Ph.D. in Computer Science**, *Tel Aviv University*, Tel Aviv Israel.
Advisors: Professor Amnon Ta-Shma and Profesor Oded Regev.
Area of Study: Theoretical Computer Science.
- 2007–2008 **MSc. in Computer Science**, *Weizmann Institute of Science*, Rehovot, Israel.
Thesis title: How Well Do Random Walks Parallelize?
Advisor: Professor Omer Reingold.
Area of Study: Theoretical Computer Science and Probability Theory
- 1999–2001 **B.Sc in Mathematics and Computer Science**, *Technion - Israel Institute of Technology*, Haifa, Israel.

Work Experience

- Summer 2009 **Summer Internship**, *Microsoft Research Silicon Valley*, Mountain View, CA, USA.
- 2002–2007 **Academic Officer**, *IDF*, Israel, Mathematical and algorithmic research.
- 2000–2001 **Software Engineer**, *Intel IDC*, Haifa, Israel.

Publications

- ◇ Klim Efremenko. From Irreducible Representations to Locally Decodable Codes. to be submitted to STOC 2012
- ◇ Avraham Ben-Aroya, Klim Efremenko, Amnon Ta-Shma. Local list decoding with a constant number of queries. FOCS 2010
- ◇ Avraham Ben-Aroya, Klim Efremenko, Amnon Ta-Shma. A Note on Amplifying the Error-Tolerance of Locally Decodable Codes. ECCV 2010

- ◇ Klim Efremenko. 3-Query Locally Decodable Codes of Subexponential Length. SICOMP special issue of STOC 2009, Preliminary version in STOC 2009 STOC 2009
- ◇ Klim Efremenko, Omer Reingold. How Much Faster are Multiple Random Walks? Random 2009
- ◇ Raphaël Clifford , Klim Efremenko, Ely Porat, Amir Rothschild. From Coding Theory to Efficient Pattern Matching. SODA 2009
- ◇ Ely Porat, Klim Efremenko. Approximating General Metric Distances Between a Pattern and a Text. SODA 2008
- ◇ Raphaël Clifford, Klim Efremenko, Ely Porat, Amir Rothschild. Pattern matching with don't cares and few errors. J. Comput. Syst. Sci.(2010) Preliminary version in ESA 2008
- ◇ Raphaël Clifford, Klim Efremenko, Benny Porat, and Ely Porat. A Black Box for Online Approximate Pattern Matching, CPM 2008
- ◇ Raphaël Clifford, Klim Efremenko, Benny Porat, Ely Porat, and Amir Rothschild. Mismatch sampling, SPIRE 2008

Honors and Awards

- 2010-2012 Adams Fellowship Award of the Israel Academy of Sciences and Humanities
- 1999–2001 Technion Excellence Program
- 1998–1999 First prize in the "International City Tournament" math Olympiad

Invited Talks

- January 2011 **Tel Aviv Theory Seminar**, *Tel Aviv University*.
- December 2010 **Technion Theory Seminar**, *Technion*.
- November 2009 **Oberwolfach Complexity Seminar**, *Oberwolfach Germany*.
- March 2009 **Technion Theory Seminar**, *Technion*.
- January 2009 **Computer Science Weekly Colloquium**, *Hebrew University*.
- December 2008 **Computer Science Seminar**, *Ben-Gurion University*.
- December 2008 **Tel Aviv Theory Seminar**, *Tel Aviv University*.

Service to the Community

- Journal Reviews Information Processing Letters, Theory of Computing
- Conference Reviews STOC 2009, STOC 2010, FOCS 2010, APPROX-RANDOM 2011

Teaching Experience

- 2001–2002 **Teaching assistant in Calculus 1**, *Technion*.
- 2006-2007 **Teaching assistant in Abstract Algebra**, *Bar-Ilan University*.