

# Asaf Shapira - Curriculum Vitae

## Positions

- 2011-present: Senior Lecturer, School of Mathematics, Tel-Aviv University, Tel-Aviv, Israel.
- 2008-present: Assistant Professor, School of Mathematics and School of Computer Science, Georgia Institute of Technology, Atlanta, Georgia.
- 2006-2008: Post-Doc Researcher, Theory Group, Microsoft Research, Redmond, WA, USA.

## Education

- 2002-2006: Ph.D. in Computer Science (with Distinction), Tel-Aviv University, Israel.  
Thesis: *Graph Property Testing and Related Problems*. Advisor: Prof. Noga Alon.
- 1999-2001: M.Sc. in Computer Science (Summa Cum Laude), Tel-Aviv University, Israel.  
Thesis: *Testing Satisfiability*. Advisor: Prof. Noga Alon.
- 1996-1999: B.A. in Computer Science and Economics (Magna Cum Laude), Tel-Aviv University, Israel.

## Awards and Honors

- Alon Fellowship, 2011.
- Nessyahu Prize (awarded by the Israeli Mathematical Union for the best Ph.D. Thesis), 2007.
- Rothschild Postdoctoral Fellowship, 2006.
- Charles Clore Foundation Fellowship for Ph.D. students, 2004-2006.
- International IBM Ph.D. Fellowship, 2004-2005.
- Dean's prize for high Ph.D. achievements, 2003.
- Dean's prize for high M.Sc. achievements, 2001.
- Rector's List of Honor, Faculty of Exact Sciences, 2000.

## Funding

- Marie-Curie Grant (PI, 130,000\$), 2012-2016.
- ISF Grant 224/11 (PI, 200,000\$), 2011-2015.
- NSF Grant DMS-0901355 (PI, 150,000\$), 2009-2012.

## Students

- Subrahmanyam Kalyanasundaram (PhD 2011, co-advised with R. Lipton).

## Lectures

## Invited Talks in Workshops and Conferences

- Workshop on *Graph Limits*, Czech Republic, 2012.
- Workshop on *Discrete Mathematics: Methods, Challenges and Applications*, Eilat, 2012.
- Bertinoro workshop on *Sublinear algorithms*, Bertinoro, Italy, 2011.
- Oberwolfach workshop on *Combinatorics*, Oberwolfach, Germany, 2011.
- SIAM Conference on *Discrete Mathematics*, Austin, USA, 2010.
- IPAM workshop on *Topics in Graphs in Hypergraphs*, Los Angeles, USA, 2009.
- Banff workshop on *Extremal and Probabilistic Combinatorics*, Banff, Canada, 2009.
- Symposium on Theory of Computation (STOC), Washington DC, 2009.
- Oberwolfach workshop on *Combinatorics and Probability*, Oberwolfach, Germany, 2009.
- 4<sup>th</sup> *Information Theory and Applications (ITA)* workshop, San Diego, California, 2009.
- **(Plenary Speaker)** DIMACS workshop on *Property Testing*, Rutgers University, NJ, 2009.
- Workshop on *Graph Limits*, Czech Republic, 2009.
- Symposium on Theory of Computation (STOC), Victoria, Canada, 2008.
- Symposium on Discrete Algorithms (SODA), San Francisco, California, 2008.
- Symposium on Foundations of Computer Science (FOCS), Providence, RI, 2007.
- Conference on *Random Structures and Algorithms (RSA)*, Tel-Aviv, Israel, 2007.
- Symposium on Discrete Algorithms (SODA), New Orleans, Louisiana, 2007.
- **(Plenary Speaker)** Workshop on *Quasi-random Structures, Regularity Lemmas and their Applications*, Renyi Institute, Budapest, Hungary, 2007.
- Workshop on *Asymptotic Problems in Analysis, Mathematical Physics and Combinatorics*, Paris, France, 2006.
- Haifa Workshop on *Interdisciplinary Applications of Graph Theory, Combinatorics, and Algorithms*, Haifa, Israel, 2006.
- Symposium on Theory of Computation (STOC), Seattle, Washington, 2006.
- Symposium on Foundations of Computer Science (FOCS), Pittsburgh, PA, 2005.
- Dagstuhl workshop on *Sublinear Algorithms*, Dagstuhl, Germany, 2005.
- Symposium on Theory of Computation (STOC), Baltimore, Maryland, 2005.
- Bertinoro workshop on *Erdős magic in algorithms and games*, Bertinoro, Italy, 2005.
- Symposium on Discrete Algorithms (SODA), Vancouver, Canada, 2005.
- Symposium on Discrete Algorithms (SODA), New Orleans, Louisiana, 2004.
- Symposium on Theory of Computation (STOC), San Diego, California, 2003.
- Symposium on Discrete Algorithms (SODA), San Francisco, California, 2002.
- *Combinatorial Optimization 2002 (CO-2002)*, Paris, France.

## Talks in Seminars

- Combinatorics Seminar, Tel-Aviv University, 2012
- Combinatorics Seminar, The Technion, 2012
- Combinatorics Seminar, Hebrew University, 2012
- Mathematics Colloquium, Tel-Aviv University, 2011.
- Algorithms, Combinatorics and Optimization Seminar, CMU, 2011
- Combinatorics Seminar, Georgia Tech, 2010
- Combinatorics Seminar, Emory University, 2010
- Combinatorics Seminar, Georgia Tech, 2009
- Theory Seminar, Google Research, NYC, 2008
- Theory Seminar, IBM Research, Almaden, 2008.
- Combinatorics Seminar, Georgia-Tech, 2008
- Theory Seminar, The Technion, 2008
- Combinatorics Seminar, Georgia Tech, 2008
- Theory Seminar, Hebrew University, 2007
- Probability Seminar, Weizmann Institute of Science, 2007
- Combinatorics Seminar, Tel-Aviv University, 2007
- Research Seminar, Microsoft Research, Redmond, WA, 2006.
- Research Seminar, Microsoft Research, Mountain View, CA, 2006.
- Theory Seminar, MIT, Cambridge, MA, 2005.
- Research Seminar, Microsoft Research, Redmond, WA, 2005.
- Combinatorics Seminar, Technion, Israel, 2005.
- Annual GAFA/Combinatorics Seminar, Israel, 2005.
- Discrete Math Seminar, Princeton University, USA, 2005.
- Theoretical Computer Science Seminar, Institute for Advanced Study, USA, 2005.
- Theoretical Computer Science Seminar, DIMACS, USA, 2005.
- Combinatorics seminar, Tel-Aviv University, Israel, 2004.
- Cryptography and Complexity Seminar, Weizmann Institute of Science, Israel, 2004.
- Theoretical Computer Science Seminar, Hebrew University, Jerusalem, Israel, 2004.
- Combinatorics Seminar, Hebrew University, Jerusalem, Israel, 2004.
- Combinatorics Seminar, Technion, Israel, 2004.
- Combinatorics Seminar, Tel-Aviv University, Israel, 2003.

- Cryptography and Complexity Seminar, Weizmann Institute of Science, Israel, 2003.
- Combinatorics Seminar, Tel-Aviv University, Israel, 2002.
- Combinatorics Seminar, Technion, Israel, 2001.
- Combinatorics Seminar, Bar Ilan University, Israel, 2001.

## Teaching Experience

- Basic Combinatorics (Spring 2012)
- Graduate Seminar in Graph Theory (Fall 2011)
- Combinatorial Analysis (Spring 2011)
- Advanced Algorithms (Fall 2010)
- Introduction to Graph Theory (Fall 2010)
- Algebraic Methods in Combinatorics (Spring 2010)
- Probabilistic Methods in Combinatorics (Fall 2009)
- Advanced Topics in Combinatorics (Spring 2009)
- Combinatorial Analysis (Spring 2009)

## Scientific Service

- Associate Editor: *Discrete Optimization*
- Session Chair: INFORMS 2010
- Conference PC member: 21<sup>st</sup> Annual ACM-SIAM Symposium on Discrete Algorithms (**SODA**) 2010
- Conference PC member: 13<sup>th</sup> Intl. Workshop on Randomization and Computation (**RANDOM**) 2007
- Journal refereeing: *Combinatorica*, *J. of Combinatorial Theory Ser. A*, *J. of Combinatorial Theory Ser. B*, *Discrete Math*, *SIAM J. on Discrete Mathematics*, *European J. of Combinatorics*, *SIAM J. Computing*, *Theory of Computing*, *Information Processing Letters*, *Information and Computation*
- Conference refereeing: *STOC*, *FOCS*, *SODA*, *RANDOM*, *ICALP*, *ESA*, *MFCS*, *STACS*

## Other Employment

- 2001-2002 : Algorithms Developer, Schema Ltd., Israel.  
Designed algorithms for Cellular Networks Optimization.
- 1999-2001 : Algorithms Developer, Zapper Ltd., Israel.  
Designed algorithms in the area of Information Retrieval.
- 1997-1998 : Programmer, Lucent Ltd., Israel.  
Developed software for high-performance network components.
- 1992-1995 : Full Army Service, Israel Air-Force.