

# Asaf Shapira - Curriculum Vitae

## Positions

- 2016-present: Professor, School of Mathematics, Tel-Aviv University, Israel.
- 2013-2016: Associate Professor (with tenure), School of Mathematics, Tel-Aviv University, Israel.
- 2011-2013: Senior Lecturer, School of Mathematics, Tel-Aviv University, Israel.
- 2008-2012: Assistant Professor, School of Mathematics and School of Computer Science, Georgia Institute of Technology, Atlanta, USA.
- 2006-2008: Post-Doc Researcher, Theory Group, Microsoft Research, Redmond, 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

- The Raymond and Beverly Sackler Career Development Chair, Tel-Aviv University, 2012.
- 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

- ISF Grant 1082/16 (\$200,000, jointly with R. Yuster, split evenly), 2016-2020.
- ERC Starting Grant (PI, \$1,500,000), 2015-2020.
- 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 Supervision

- Guy Moshkovitz  
PhD Thesis Title: *Problems in Extremal Combinatorics* (in progress)
- Lior Gishboliner  
PhD Thesis Title: *Efficient Removal Lemmas* (in progress)
- Shachar Sapir  
MSc Thesis Title: *The Induced Graph Removal Lemma* (in progress)
- Michal Amir  
MSc Thesis Title: TBD
- Lior Gishboliner (MSc 2015)  
MSc Thesis Title: *Deterministic vs Non-deterministic Graph Property Testing*
- Subrahmanyam Kalyanasundaram (PhD 2011, co-advised with R. Lipton)  
PhD Thesis Title: *Turing Machine Algorithms and Studies in Quasi-randomness.*

## Lectures

### Invited Talks in Workshops and Conferences

- TSIMF workshop on *Recent Advances in Extremal Combinatorics*, Sanya, China, 2017
- LSE-QMUL *Colloquia in Combinatorics*, London, 2017
- Atlanta Lecture Series in *Combinatorics and Graph Theory*, Atlanta, 2017
- Simons workshop on *Proving and Using Pseudorandomness*, UC Berkeley, 2017
- Oberwolfach workshop on *Combinatorics*, Oberwolfach, Germany, 2017
- MIT workshop on Local Algorithms, Boston, USA, 2016.
- SIAM Conference on *Discrete Mathematics*, Atlanta, USA, 2016
- ETH-FIM workshop on *Extremal and Probabilistic Combinatorics*, ETH-Zurich, Switzerland, 2016
- Oberwolfach workshop on *Combinatorics and Probability*, Oberwolfach, Germany, 2016
- Banff workshop on *Extremal and Probabilistic Combinatorics*, Banff, Canada, 2015
- LMS-CMI Research School on *Regularity and Analytic Methods in Combinatorics*, Warwick, 2015
- Workshop on *Interdisciplinary Applications of Graphs, Combinatorics and Algorithms*, Haifa, 2015
- Clay Mathematics Institute workshop on *Extremal and Probabilistic Combinatorics*, Oxford, UK, 2014
- Oberwolfach workshop on *Combinatorics*, Oberwolfach, Germany, 2014
- Simons Workshop on *Neo-Classical Methods in Discrete Analysis*, UC Berkeley, USA, 2013
- **(Plenary Speaker)** *European Conference on Combinatorics, Graph Theory and Applications*, Pisa, Italy, 2013
- *Erdős Centennial Conference*, Budapest, Hungary, 2013

- Oberwolfach workshop on *Combinatorics and Probability*, Oberwolfach, Germany, 2013
- Banff workshop on *New Trends and Directions in Combinatorics*, Banff, Canada, 2012
- ESF Conferences on *Perspectives in Discrete Mathematics*, Barcelona, Spain, 2012
- Israel Mathematical Union Meeting, Bar-Ilan University, 2012
- 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
- DIMACS Workshop on *Properties of Large Graphs: From Combinatorics to Statistical Physics and Back*, Rutgers University, NJ, 2006
- 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

- Mathematics Colloquium, Hebrew University, 2017
- Combinatorics Seminar, Hebrew University, 2013
- Combinatorics Seminar, Tel-Aviv University, 2013
- Combinatorics Seminar, The Technion, 2012
- Combinatorics Seminar, Hebrew University, 2012
- Combinatorics Seminar, Tel-Aviv 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 (Selected Courses)

- Topics in Extremal Combinatorics (Spring 2015)
- Linear Algebra A1 (Spring 2014, Spring 2016)
- Undergraduate Seminar in Combinatorics (Spring 2013, 2015)
- Extremal Graph Theory (Fall 2012, 2016)
- Basic Combinatorics (Spring 2012-2016)
- Graduate Seminar in Graph Theory (Fall 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

- Conference PC member: 13<sup>th</sup> Intl. Workshop on Randomization and Computation (**RANDOM**) 2007
- Conference PC member: 21<sup>st</sup> Annual ACM-SIAM Symposium on Discrete Algorithms (**SODA**) 2010
- Conference PC member: 20<sup>th</sup> Intl. Workshop on Randomization and Computation (**RANDOM**) 20016

- Conference PC member: 21<sup>st</sup> Annual ACM-SIAM Symposium on Discrete Algorithms (**SODA**) 2018
- 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
- Associate Editor: *Discrete Optimization*, 2006-2008.
- Session Chair: INFORMS 2010