Yahav Alon - Curriculum Vitae

Personal Details

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Citizenship: Israel

Affiliation

Department of Pure Mathematics, School of Mathematical Sciences, Sackler Faculty of Exact Sciences, Tel Aviv University, Tel Aviv 6997801, Israel.

Education

Oct 2019 – present	Ph.D. Pure mathematics, Tel Aviv University. Advisor: Prof. Michael Krivelevich.
Oct 2017 – Sep 2019	M.Sc. Pure mathematics, Tel Aviv University, summa cum laude. Advisor: Prof. Michael Krivelevich. Thesis title: Hamilton cycles in random graphs. Final grade: 97.
2008 – 2010	B.Sc. Mathematics and computer science as part of "Arazim" program for mathematical excellence, Tel Aviv University.
2005 – 2008	Maccabim – Reut high school, Majored in Physics and Art.

Professional experience

2010 – 2016	Researcher and later lead researcher in algorithms and mathematical theory (IDF computers and communication corps).

Awards

2019 Excellence in M.Sc. Studies, School of Mathematical Sciences, Tel Aviv University

Papers

1. Y. Alon and M. Krivelevich, *Random graph's Hamiltonicity is strongly tied to its minimum degree,* Electronic Journal of Combinatorics 27 (2020), publ. 1.30.
   arXiv version: https://arxiv.org/abs/1810.04987

2. Y. Alon and M. Krivelevich, *Finding a Hamilton cycle fast on average using rotations-extensions*, Random Structures & Algorithms 57 (2020), 32-46.
   arXiv version: https://arxiv.org/abs/1903.03007
3. Y. Alon and M. Krivelevich, *Hitting time of edge disjoint Hamilton cycles in random subgraph processes on dense base graphs*.
   Submitted.
   arXiv version: https://arxiv.org/abs/1912.01251
4. Y. Alon, M. Krivelevich and E. Lubetzky, *Cycle lengths in sparse random graphs*.
   Submitted.
   arXiv version: https://arxiv.org/abs/2008.13591
5. Y. Alon, M. Krivelevich and P. Michaeli, *Spanning trees at the connectivity threshold*.
   Submitted.
   arXiv version: https://arxiv.org/abs/2010.15519

Talks

1. Cycle lengths in sparse random graphs. Research seminar in combinatorics, Tel Aviv university, November 2020
2. Hitting time of edge disjoint Hamilton cycles in random subgraph processes. Warwick combinatorics seminar. June 2020.
3. Hitting time of disjoint Hamilton cycles in random subgraph processes. FUB-TAU joint workshop, March 2020.
4. Finding Hamilton cycles fast on average using rotations-extensions. The 19th International Conference on Random Structures and Algorithms, ETH Zurich, July 2019.
5. Finding Hamilton cycles fast on average using rotations-extensions. Research seminar in combinatorics, Tel Aviv university, June 2019.

Teaching (Tel Aviv University)

1. Intro to discrete mathematics for engineers.
2. Linear Algebra for computer science and statistics (Teaching assistant).
3. Linear Algebra for mathematics (Teaching assistant).
4. Linear Algebra II for computer science and statistics (Teaching assistant).
5. Grading: Linear Algebra, Linear Algebra II, Calculus III, Number Theory, Introduction to Combinatorics, Basic Combinatorics, Graph theory.