Curriculum vitae

Dániel Gerbner

Date and place of birth: October 5. 1980., Budapest

Nationality: Hungarian

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Research interest: Extremal Combinatorics, Search Theory

Education

1999-2004 Eötvös Loránd University
Faculty of Science
Msc. in Mathematics

2004-2007 Eötvös Loránd University
Faculty of Informatics
Ph.D program
Supervisor: Gyula O.H. Katona
Title of thesis: Extremal Combinatorial Problems
Date of Defense: Dec. 9. 2009.

Current position

OTKA postdoctoral fellow at the Alfréd Rényi Institute of Mathematics in Budapest, Hungary, September 2013–present

Earlier positions

Young researcher (postdoc) and research fellow at the Alfréd Rényi Institute of Mathematics in Budapest, Hungary, January 2008–Augustus 2013.

Teaching assistant, University of South Carolina, August–December 2007.

Teaching experience

Teaching assistant - Discrete Mathematics, Eöötvös University, Budapest 2005–2007.

Teaching assistant - Calculus, Math 141, University of South Carolina, 2007.

Teaching assistant - Foundations of Computer Science, Technical University, Budapest, 2013.

Scientific Awards, Grants

2009. Grünwald Géza Emlékérem

2013–present OTKA (Hungarian National Scientific Fund) Postdoctoral Grant

Publications

1. Dániel Gerbner: Egy extremális probléma, *Matematikai Lapok* 2000–2001/2 (2005), 5–12.

2. Attila Bernáth, Dániel Gerbner: Chain intersecting set families, *Graphs and Combinatorics, 23 (2007), no. 4, 353–366.*

3. Dániel Gerbner, Balázs Patkós: l-chain profile vectors, *SIAM J. Discrete Math. 22 (2008), no. 1, 185–193.*

4. Dániel Gerbner, Balázs Patkós: Profile vectors in the lattice of subspaces, *Discrete Mathematics, 309 (2009), no. 9, 2861–2869*

5. Dániel Gerbner, Dömötör Pálvölgyi, Balázs Patkós, Gábor Wiener: Finding the maximum and minimum elements with one lie, *Discrete Appl. Math. 158 (2010), no. 9, 988–995.*

6. Dániel Gerbner, Balázs Keszegh, Nathan Lemons, Balázs Patkós, Cory Palmer, Dömötör Pálvölgyi: Polychromatic colorings of arbitrary rectangular partitions, *Discrete Mathematics 310 (2010), no. 1, 21–30*

7. Dániel Gerbner, Nathan Lemons, Balázs Patkós, Cory Palmer, Vajk Szècsi: Cross-Sperner families, *Studia Sci. Math. 49 (2012), 44–51.*

8. P.L. Erdős, Dániel Gerbner, Nathan Lemons, Dhruv Mubayi, Cory Palmer, Balázs Patkós, Two-part set systems *Electronic Journal of Combinatorics 19 (2012) P52, 10pp.*

9. Dániel Gerbner, Balázs Keszegh, Cory Palmer: Generalizations of the Tree Packing Conjecture, *Discussiones Mathematicae Graph Theory 32 (2012) 569–582.*

10. Dániel Gerbner, Balázs Keszegh: Path-search in the pyramid and in other graphs, *Journal of Statistical Theory and Practice 6 (2012) 303-314., doi: 10.1080/15598608.2012.673885*

11. Dániel Gerbner , Nathan Lemons, Cory Palmer, Balázs Patkós and Vajk Szécsi: Almost intersecting families of sets *SIAM J. Discrete Math.* 26 (2012) 1657-1699.

12. Dániel Gerbner, Nathan Lemons, Cory Palmer, Dömötör Pálvölgyi, Balázs Patkós and Vajk Szécsi: Almost Cross-Intersecting and Almost Cross-Sperner Pairs of Families of Sets *Graphs and Combinatorics 29 (2013) 489–498. doi: 10.1007/s00373-012-1138-2*

13. Dániel Gerbner, Balázs Keszegh, Nathan Lemons, Balázs Patkós, Cory Palmer, Dömötör Pálvölgyi: Saturating Sperner Families, *Graphs and Combinatorics 29 (2013) 1355–1364. doi: 10.1007/s00373-012-1195-6*

14. Dániel Gerbner, Gyula O.H. Katona, Dömötör Pálvölgyi, Balázs Patkós: Majority and plurality problems, *Discrete Applied Mathematics 161, (2013) 813–818. doi: 10.1016/j.dam.2012.10.023*

15. Dániel Gerbner, Balázs Keszegh, Dömötör Pálvölgyi, Gábor Wiener: Density-based group testing, *Information Theory, Combinatorics and Search Theory, in Memory of Rudolf Ahlswede, LNCS* 7777 (2013) 543–556.

16. Dániel Gerbner: Profile polytopes of some classes of families, *Combinatorica* 33 (2013) 199–216.

17. Dániel Gerbner, Géza Tóth: Separating families of convex sets, *Computational Geometry* 46 (2013) 1056–1058.

18. J. Balog, J. Barát, D. Gerbner, A. Gyárfás, G. Sárközy: Partitioning Edge-2-colored graphs by monochromatic paths and cycles, *Combinatorica, to appear*

19. Dániel Gerbner, Barát János: Edge-decomposition of graphs into copies of a tree with four edges, *Electronic Journal of Combinatorics, accepted*

20. Dániel Gerbner: The Magnus-Derek game in groups, *Discrete Mathematics and Theoretical Computer Science, accepted*

21. Adrian Dumitrescu, Dániel Gerbner, Balázs Keszegh, Csaba Tóth: Covering paths for planar point sets, *Discrete and Computational Geometry, accepted*