

CURRICULUM VITAE

PERSONAL INFORMATION

Full name: Gabor Kun

Country of citizenship: Hungary

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EDUCATION

2007 PhD, School of Mathematics, Eotvos University, Hungary

2003 MSc, School of Mathematics, Eotvos University, Hungary

WORK

9/2013-Present Research Fellow, Renyi Institute of Mathematical Sciences

9/2012-8/2013 Research fellow, Eotvos University

9/2011-8/2012 Research associate professor, Courant Institute (NYU)

8/2011-9/2011 Visiting researcher, MSRI, Berkeley (Quantitative geometry program)

9/2008-8/2011 Postdoc, IAS (Institute for Advanced Study) and DIMACS

9/2007-8/2008 Postdoc, Simon Fraser University and PIMS

6/2007-8/2007 Visiting researcher, University of Cambridge, UK

9/2006-8/2007 Postdoc, University of Memphis

PRIZES AND AWARDS

3/2014-2/2016 Marie Curie International Incoming Fellowship, total budget: EUR 184411,

2014 Junior Prize of the Academy (awarded annually by the Hungarian Academy of Sciences, to scientists under the age of 35, awarded to one mathematician every year)

9/2013-8/2016 Bolyai Fellowship of the Hungarian Academy of Sciences

2012 Junior Prima Prize (awarded annually by the Hungarian Academy of Sciences to 10 scientists under the age of 33),

2008 Geza Grunwald Memorial Prize, awarded by the Bolyai Mathematical Society (for research under the age of 30),

9/2006-8/2007 International Outgoing Fellowship of the National Office for research and technology (NKTH), total budget: EUR 25000,

2003 Pro Scientia prize, awarded by the Hungarian Academy of Sciences (highest scientific recognition for university students, awarded biannually, usually to one student in mathematics),

2003 University students' national research paper contest (OTDK), 1st , 2nd and special prize,

9/2001--8/2003: Scholarship of the Republic of Hungary, (awarded annually to 1% of the undergraduate students),

2002 Miklos Schweitzer Memorial Competition, 1st prize

2002, 2003 Kato Renyi Medal, awarded by the Bolyai Mathematical Society (to undergraduates for excellence in research)

2000 Vojtech Jarnik Memorial Competition, 2nd prize

1999, 2000 and 2002 International Mathematics Competition for University Students, 2nd prize

1998 International Mathematical Olympiad, Silver Medal,

1996, 1998 Jozsef Kurschak Memorial Competition (for secondary school and first year university students), 1st prize

TEACHING

2000-2003 Discrete mathematics, Eotvos University, Hungary

2004-2006 Algebra, Eotvos University, Hungary

2010 Advanced graph theory (PhD course), Rutgers University, USA

2011 Constraint Satisfaction Problems (PhD course), Rutgers University, USA

SELECTED INVITED TALKS AT WORKSHOPS AND CONFERENCES

2004 Winter Conference of the Canadian Mathematical Society, Montreal (Canada)

2005 Conference on Universal Algebra and Lattice Theory, Szeged (Hungary)

2005 Workshop on Graphs, Morphisms and Applications, Bellaterra (Spain)

2007 Conference on Algebra and the Constraint Satisfaction Problem, Nashville (USA)

2007 Workshop on enumerative combinatorics and the probabilistic method, Bellaterra (Spain)

2008 AMS, International Meeting, Rio de Janeiro (Brazil)

2009 DIMACS "mixer" workshop, New Brunswick (USA)

2009 Workshop on graph limits, Hranicny Zamecek (Czech Republic)

2010 DIMACS "mixer" workshop, New Brunswick, (USA)

2011 AMS, Western Section Meeting, Las Vegas (USA)

2011 Workshop on approximability of CSP's, Fields Institute, Toronto (Canada)

2012 Workshop on graph limits, Hranicni Zamecek (Czech Republic)

2013 Two one-day colloquia in combinatorics, LSE+Queen Mary U., London (UK)

2013 Annual Scientific Meeting of CE-ITI, Charles University, Prague (Czech Republic)

2014 Szeged-Novi Sad Meeting in Combinatorics

2014 Workshop on graphs, groups and stochastic processes, Renyi Institute, Budapest

2014 Czech-French Workshop on sparse structures, Charles University, Prague

2015 Workshop on graph limits, Hranicny Zamecek (Czech Republic)

MEMBERSHIPS

2001 - Present Janos Bolyai Mathematical Society

2003 - 2011 Organizing Committee of the Jozsef Kurschak Memorial Competition

LIST OF PUBLICATIONS

Gabor Kun and Daniel Dadush: "Lattice sparsifiers and the approximate closest vector problem", Theoretical Computer Science, accepted,

Miklos Abert, Peter Csikvari, Peter Frenkel and Gabor Kun, "Matchings in Benjamini-Schramm convergent graph sequences", Transactions of the AMS, accepted,

Gabor Kun and Mario Szegedy: "A new line of attack on the dichotomy conjecture", European Journal of Combinatorics, accepted,

Bela Bollobas, Gabor Kun and Imre Leader: "Cops and robbers in a random graphs", J. Comb. Theory B, 103 (2), 226--236, 2013,

Gabor Kun: "Constraints, MMSNP and expander relational structures", Combinatorica, 33(3), 335--347, 2013,

Gabor Kun and Daniel Dadush: "Lattice sparsifiers and the approximate closest vector problem", Symposium on Discrete Algorithms (SODA), 1088--1012, 2012,

Gabor Kun, Ryan O'Donnell, Suguru Tamaki, Yuichi Yoshida and Yuan Zhou: "Linear programming, width-1 CSP's and robust satisfaction", ITCS 2012, 484--495, 2012,

Gabor Kun and Mario Szegedy: "A new line of attack on the dichotomy conjecture", Symposium on the Theory of Computing (STOC 2009), 725--734, 2009,

Gabor Kun and Benoit Larose: "Stable sets of maximal size in Kneser-type graphs", European Journal of Combinatorics, Vol. 30 (1), 17--29, 2009,

Gabor Kun and Jaroslav Nesetril: "Lifts and shadows (NP and CSP for combinatorialists)", European Journal of Combinatorics, Vol. 29 (4), 930--945, 2008,

Gabor Kun and Jaroslav Nesetril: "NP for combinatorialists", EUROCOMB07, Electronic Notes in Discrete Mathematics, Vol. 29, 389--396, 2007,

Gabor Kun and Claude Tardif: "Almost all paths are almost cores", European Journal of Combinatorics, Vol. 31 (3), 688--693, 2010,

Gabor Kun and Marcin Kozik: "The subdirectly irreducible algebras in the variety generated by graph algebras", Algebra Universalis, Vol. 58, 229--242, 2008,

Gabor Kun and Jaroslav Nesetril: "NP by means of lifts and shadows", 32nd International Symposium on Mathematical Foundations of Computer Science, Lecture Notes in Computer Science, 171--181, 2007,

Gabor Kun and Vera Vertesi: "The membership problem in finite flat hypergraph algebras", J. Alg. Comp., 449--459, Vol. 13(3), 2007,

Gabor Kun, Olga Maleva and Andras Mathe: "Metric characterization of pure unrectifiability", *Real Analysis Exchange*, Vol. Bf 31(1), 1--18, 2006,

Gabor Kun: "A surprising covering of the real line", *Proc. Amer. Math. Soc.*, Vol. 134(12), 3555--3559, 2006,

Gabor Kun and Csaba Szabo: "Jonsson terms and near-unanimity functions in finite posets", *Order*, 20, 291--298, 2003,

Gabor Kun and Gabor Lippner: "Large convex empty polygons in k -convex sets" *Per. Math. Hun.*, 46(10), 81--88, 2003,

Yong Gao-Chen, Gabor Kun, Gabor Pete, Imre Z. Ruzsa and Adam Timar: "Prime values of reducible polynomials, II", *Acta Arithmetica*, 104.2, 117--127, 2002,

Gabor Kun and Csaba Szabo: "Order varieties and monotone retractions of finite posets", *Order*, 18, 79--88, 2001,