Casey Tompkins

Contact Information	36 70 606 7206 ctompkins496@gmail.com		
CURRENT Position	Young Researcher (postdoc) at the Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences. Nov 2014–		
Research Interests	Extremal combinatorics, graph theory, combinatorial geometry.		
Education	Central European University, Budapest, Hungary		
	 Ph.D., Mathematics and its Applications, May 2015 Thesis Topic: Extremal Problems on Sets and Posets, awarded grade of summa cum laude Advisor: Gyula O.H. Katona 		
	M.S., Mathematics and its Applications, June 2011		
	 Thesis Topic: Generalizations of Classical Theorems in Extremal Set Theory Advisor: Gyula O.H. Katona 		
	Lake Forest College, Lake Forest IL, United States		
	B.S., Mathematics, Dec 2008		
Awards	Doctoral Research Study Grant Aug 2014		
	Award for Advanced Doctoral Students Feb 2014		
	Department of Mathematics and its Applications, Central European University		
ARTICLES	 D. Gerbner, A. Methuku, C. Tompkins. Intersecting P-free families. Journal of Combinatorial Theory, Series A 151, 61-83, 2017. 		
	 P. Aboulker, G. Lagarde, D. Malec, A. Methuku, C. Tompkins. De Bruijn-Erdős type theorems for graphs and posets. Discrete Mathematics 340 (5) 995-999, 2017. 		
	3. D. Grósz, A. Methuku, and C. Tompkins. An improvement of the general bound on the largest family of subsets avoiding a subposet. Order 34, 113-125, 2016.		
	 A. Methuku and C. Tompkins. Exact forbidden subposet results using chain decompositions of the cycle. The Electronic Journal of Combinatorics, 22(4), 2015. 		
	5. E. Győri, S. Kensell, C. Tompkins. Making a C_6 -free graph C_4 -free and bipartite. Discrete Applied Mathematics 209, 133-136, 2015.		
	6. D. Grósz, A. Methuku, and C. Tompkins. An upper bound on the size of diamond-free families of sets. arXiv:1601.06332, submitted.		
	 A. Davoodi, E. Győri, A. Methuku, C. Tompkins. An Erdős-Gallai type theorem for hypergraphs. arXiv:1608.03241, submitted. 		
	 E. Győri, G. Katona, L. Papp, C. Tompkins. The optimal Pebbling number of staircase graphs. arXiv:1611.09686, submitted. 		

PEER REVIEWED CONFERENCE PROCEEDINGS	1. J. Cardinal, S, Felsner, T. Miltzow, C. Tompkins, B. V graphs of rays and grounded segments. Proceedings of Workshop on Graph-Theoretic Concepts in Computer S	Ogtenhuber. Intersection of the 43rd International cience, 2017.
Presentations	Talks at Conferences	
	$\bullet~25{\rm th}$ workshop 3in1, Dosłónce , Poland	Nov 2016
	An upper bound on the size of diamond- free families of se	ets
	• The Fourth Gdańsk Workshop on Graph Theory	Jun 2016
	An Erdős-Gallai type theorem for hypergraphs	
	• 24th workshop 3in1, Krynica, Poland	Nov 2015
	An improvement of the general bound on the largest fam	maily of subsets avoiding a
	• Voung Researcher Conference Budapost Hungary	Inp. 2015
	• Found Researcher Connerence, Budapest, Hungary	Jan 2015
	• Combinatorics 2014 Caste Italy	Jun 2014
	Making a Co-free graph Co-free and bipartite	Juli 2014
	• Summit:240 Budapest Hungary	Jul 2014
	Making a C_{e} -free graph C_{4} -free and bipartite	0 di 2011
	 Problems in Combinatorics and Posets Session. Kraków, F 	Poland Sep 2012
	Folidding Subosets of B_n	orana sop =o1=
	Talks at Tokyo University of Science	
	• The largest family of sets forbidding a subposet	Oct 2014
	Talks at the Rényi Institute	
	• A hypergraph version of the Erdős-Gallai theorem	Mar 2017
	• Diamond-free families of sets	Oct 2016
	• Intersecting <i>P</i> -free problems	Apr 2015
	• Local versions of Intersection and Sperner-type problems	Dec 2014
	• A paper of Kamat and Misra: "An Erdős–Ko–Rado theor	em for
	matchings in the complete graph"	Apr 2013
	• Making a Graph C_6 or C_8 -free	Dec 2012
	• A generalization of Hilton's Theorem	Nov 2011
	• A paper of Korner and Sinaimeri: "On Cancellative Set F	amilies" Apr 2010
	Presentations at annual Student Symposium Lake Forest Coll	lege
	Counting the Fibonacci Numbers Cremular Composition	Apr 2008
	• Granular Compaction	Apr 2007
TEACHING	Instructor	Fall 2011–13 and 2015–16
Experience	GRE preparation session at	
	Budapest Semesters in Mathematics	2000.00
	Teaching Assistant	2006-08
	Real Analysis	
	Linear Algebra	
	Discrete Mathematics	
	Lake Forest College	
Physics	Summer Student Research	Summer 2005 and 2006
Research	Department of Physics,	
	Lake Forest College	
	Topic: Granular Compaction and Size Segregation	
	Supervisor: Nathan Mueggenburg	

ACADEMIC VISITS	Tokyo University of Sciences Supervisor: Yoshimi Egawa	Sep 2014– Nov 2014
Competition	MAA undergraduate team math competitions	
RESULTS	• 1st Place	2007
	• 2nd Place	2005 and 2006
Service	Conference Assistance	
	• Assisted in running Erdős Centenial Conference	2013
	• Assisted in running the European Conference on	
	Combinatorics Graph Theory and Applications	2011
	• Assisted in running the Summit 2014 Conference	2014
	Reviewing Articles	
	Combinatorica	
	• Discrete Mathematics	
	• Australian Journal of Combinatorics	