

Jan Volec

Litvinovska 520
Prague, Czech Republic

Phone: +420 605515226
Email: volec@kam.mff.cuni.cz

Personal

Born on January 10, 1987, Czech Republic Citizen.

Education

Charles University in Prague, Faculty of Mathematics and Physics

Bachelor student in Computer Science study program 2006–2010

Master student in Computer Science study program 2010–2011

PhD student in Computer Science study program since 2011

Participant of DIMACS-DIMATIA REU program, Rutgers University, NJ Summer 2008, 2009, 2011

Research Interests

Extremal Combinatorics

Probabilistic Methods

Structural Graph Theory

Teaching experience – Charles University

Teaching assistant for Discrete Mathematics course Fall 2008, Fall 2009

Teaching assistant for Combinatorics and Graphs I course Spring 2009, Spring 2010

Teaching assistant for Combinatorics and Graphs II course Fall 2011

Teaching assistant for Combinatorics and Graphs III course Fall 2011

Publications

F. Kardoš, D. Král, J. Volec: *Fractional colorings of cubic graphs with large girth*, SIAM Journal on Discrete Mathematics 25 (2011), 1454–1476.

D. Král, P. Škoda, J. Volec: *Domination number of cubic graphs with large girth*, Journal of Graph Theory 69 (2012), 131–142.

Ondřej Bílka, Jozef Jirásek, Pavel Klavík, Martin Tancer, Jan Volec: *On the Complexity of Planar Covering of Small Graphs*, Proceedings 37th Workshop on Graph-Theoretic Concepts in Computer Science 2011 (WG'11) Lecture Notes in Computer Science vol. 6986, pp. 83–94, Springer-Verlag, 2011.

Submitted papers

D. Král', M. Krnc, M. Kupec, B. Lužar, J. Volec: *Extending fractional precolorings*, available as ITI report 2011-522.

F. Kardoš, D. Král', J. Volec: *Maximum edge-cuts in cubic graphs with large girth and in random cubic graphs*, available as arXiv:1108.6280.

Presentations at conferences and workshops

15th Midsummer Combinatorial Workshop 2009 (MCW), Prague, Czech Republic

14th International Conference on Random Structures and Algorithms 2009, Poznan, Poland

18th Workshop Cycles and Colourings 2009, Tatranská Štrba, Slovakia

16th Midsummer Combinatorial Workshop 2010 (MCW), Prague, Czech Republic

Workshop on Extremal and Probabilistic Combinatorics 2010, Frauenchimsee, Germany

19th Workshop Cycles and Colourings 2010, Tatranská Štrba, Slovakia

15th International Conference on Random Structures and Algorithms 2011, Emory University, Atlanta

17th Midsummer Combinatorial Workshop 2011 (MCW), Prague, Czech Republic

20th Workshop Cycles and Colourings 2011, Nový Smokovec, Slovakia

Joint Mathematical Conference CSASC 2011, Krems, Austria

Seminar and other talks at universities

Seminar on Graph Theory and Algorithms, University of Ljubljana, Ljubljana, Slovenia (October 2011)

Other interests

sport – playing soccer, biking and hiking

youth center (DDM Praha 9) – summer and winter camps counselor

theatre – preparing and playing in small sketches