doc. Robert Šámal, Ph.D.
Curriculum Vitae

Born: January 6, 1977 in Prague, Czech Republic

Affiliation: Computer Science Institute of Charles University, Faculty of Mathematics and Physics, Malostranské nám. 25, 118 00 Prague, Czech Republic

Email: `samal@iuuk.mff.cuni.cz`

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Employment

since 2016 associate professor at Computer Science Institute, Charles University.

2012–2015 assistant professor at Computer Science Institute, Charles University.

2008–2011 assistant professor at Dept. of Applied Math., Charles University.

2006–2008 PIMS Postdoctoral fellow at Simon Fraser University, Canada.

2002–2006 research assistant at Inst. for Theor. Comp. Sc., Charles University.

Education

2001–2006 graduate (PhD) student of Computer Science at Charles University. PhD thesis (advisor prof. Jaroslav Nešetřil) defended in July 2006.

1995–2001 master (Mgr.) student of Mathematics at Charles University. Master thesis (advisor prof. Jaroslav Nešetřil) defended in May 2001.

1991–1995 high school with a special program for mathematics

Professional activities

- 33 publications (according to Scopus)
- 72 citations, h-index 5 (according to Scopus)
- invited speaker at Czech&Slovak Graph theory conference in 2011
- principal investigator of a postdoctoral grant GA ČR P201/10/P337 in 2010–2012
- principal investigator of a grant by Karel Janeček Science Endowment (Neuron Impuls) in 2012–2014
- principal investigator of a grant GA ČR 16-19910S in 2016–2018
- member of research team: ITI LN00A056, ITI 1M0545, CE-ITI P202/12/G061, ERC-CZ LL1201
- referee for journals J. of Comb. Th. B, J. of Graph Th., European J. of Comb., Rand. Str. and Alg., SIAM J. of Discr. Math., Discr.Math. and conferences SODA, WG, MFCS.
- received several awards during my studies, e.g. the first prize in SVOČ 2001, Hlávka award in 2005 and Bolzano award in 2006
- program committee for Czech&Slovak Graph theory conference in 2017

- (jointly with Matt DeVos) I created web site for sharing and discussing of open problems in mathematics and theoretical computer science, called Open Problem Garden (`openproblemgarden.org`).

Research interests

- graph theory and combinatorics
- probabilistic method
- applications of semidefinite programming
- game theory

Selected students

- Radek Hušek, current Ph.D. student (flows on graphs)
- Jana Syrovátková, current Ph.D. student (evolution game theory)
- Tomáš Toufar, current MSc student
- Veronika Slívová, MSc thesis defended 2017
- Tomáš Pavlík, MSc thesis defended 2016
- Peter Korcsok, MSc thesis defended 2015 (2. prize SVOČ 2014)
- Hana Bílková, MSc thesis defended 2015
- Lucie Mohelníková, MSc thesis defended 2014
- Jan Voborník, bachelor thesis defended 2013
- Jan Hladký, bachelor thesis defended 2006 (1. prize SVOČ 2007)

Teaching experience

- instructor for Real analysis, Linear algebra and Discrete Mathematics for first year students at Charles University
- instructor for Discrete Mathematics II (MACM 201) at Simon Fraser University
- instructor for course Probabilistic method at Charles University
- instructor for many selection courses at Charles University (Nowhere-zero flows, Combinatorial game theory, . . .)
- organizing reading seminars – for undergraduates and for Ph.D. students
- advisor for many students – bachelor, master and Ph.D.

Other

- Coauthor of a textbook published in AMS Student mathematical library.
- Coorganized several scientific activities for university students: spring school in combinatorics (mainly undergratuate students), KAMAK (mainly Ph.D. students).