RESUME

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Areas of specialization

Mathematical logic, set theory

Education

DSc. in Mathematics, Academy of Sciences of the Czech Republic, 2007
Ph. D. in Mathematics, The Pennsylvania State Univ. 1995, supervisor T. Jech
M. A. in Mathematics, Charles University, Prague 1994
B. A. in Mathematics, Charles University, Prague 1990

Employment

2009-present professor, University of Florida
2009-2012 Purkyně Fellow, Academy of Sciences, Czech Republic
2005-2009 associate professor, University of Florida
2000-2005 assistant professor, University of Florida
1998-2000 John Wesley Young instructor, Dartmouth College
1996-1998 Bateman research instructor, California Institute of Technology
1995-1996 postdoctoral fellow, Math. Sciences Research Institute Berkeley
1990-1995 teaching assistant, The Pennsylvania State University

Publications

Dimension theory and forcing, Topology Appl. 167 (2014), 3135
Cofinalities of Borel ideals, with Michael Hrušák and Diego Rojas Rebolledo,
Math. Logic Q. 60(2014), no 1-2, 3139
Analytic equivalence relations and the forcing method, Bull. Symbolis Logic 19
(2013) no. 47349
Forcing Borel reducibility invariants, a book in preparation
On the Steinhaus and Bergman properties for infinite products of finite groups,
with Simon Thomas, Confluentes Math. 4 (2012), no. 2, 1250002
Separation problems and forcing. J. Math. Log. 13 (2013), no. 1, 1350002
Canonical Ramsey theory on Polish spaces, with Marcin Sabok and Vladimir
Kanovei, Cambridge Tracts in Mathematics 202, Cambridge University Press
2013, ISBN 978-1-107-02685-8
Pinned equivalence relations, Mathematical Research Letters 18 (2011) 559-564
More ideals with the Komjath-Laczkovich property, Topology and Its Applications 158 (2011) 1149-1156

Forcing properties of ideals of closed sets, with Marcin Sabok, J. Symbolic Logic 76 (2011) 1075–1095

Ramsey theorem for product of finite sets with submeasures, with Saharon Shelah, Combinatorica 31 (2011) 225-244

On the existence of a sigma-closed dense subset, Comment.Math.Univ.Carolin. 51,3 (2010) 513-517

Applications of the ergodic iteration theorem. Math. Log. Q. 56 (2010), no. 2, 116-125

Regular embeddings of the stationary tower and Woodin's Sigma Two Two maximality theorem, with Richard Ketchersid and Paul Larson, J. Symbolic Logic 75 (2010), no. 2, 711-727

Preserving P-points in definable forcing. Fund. Math. 204 (2009), no. 2, 145-154

Increasing δ^1_2 by a Namba-style forcing, with Richard Ketchersid and Paul Larson, J. Symbolic Logic 72 (2007), 1372–1378

On the structure of stationary sets, with Qi Feng and Thomas Jech, Sci. China Ser. A 50 (2007) 615-627

Forcing with quotients, with Michael Hrušák, Archive Math. Logic 47 (2008), 719-739

Forcing idealized, Cambridge Tracts in Mathematics 174, Cambridge University Press 2008, ISBN 9780521874267

Proper forcing and rectangular Ramsey theorems, Israel J. Math. 152 (2006), 29–47

Between Maharam's and von Neumann's problem, with Ilijas Farah, Math. Research Letters 11 (2004), 673–684

Four and more, Ann. Pure Appl. Logic, with Ilijas Farah, Ann. Pure Appl. Logic 140 (2006), 3–39

Descriptive set theory and definable forcing, Memoirs Amer. Math. Soc. 793 (2004)

Games with creatures, with S. Shelah, Comm. Math. Univ. Carolinae 44 (2003), 9–23

Duality and the PCF theory, with S. Shelah, Math. Research Letters 9 (2002), 585–595

Forcing with ideals of closed sets, Comm. Math. Univ. Carolinae 43,1 (2002), 181–188

Isolating cardinal invariants, J. Math. Logic, 2003, 143-162

Terminal notions in set theory, Ann. Pure Appl. Logic 109 (2001), 89–116

Transfinite open games, Topology and Its Applications 111 (2001), 289–297

Killing ideals and adding reals, J. Symbolic Logic 65 (2000), 747–755

The nonstationary ideal and the other sigma ideals on omega one, Trans. Amer. Math. Soc. 352 (2000), 3981–3993

Terminal notions, Bull. Symbolic Logic 5 (1999), 470–484

On the Alaoglu-Birkhoff equivalence of posets, with S. Todorcevic, Illinois J. Math. 43 (1999), 281–292

Canonical models for aleph one combinatorics, with S. Shelah, Ann. Pure Appl. Logic 98 (1999), 217–259

Proper forcing and absoluteness in L(R), with I. Neeman, Comm. Math. Univ. Carolinae 39 (1998), 281–301

A dichotomy for forcing notions, Math. Res. Lett. 5 (1998) 213–226

Preserving sigma-ideals, J. Symbolic Logic 63 (1998), 1437–1441

Keeping additivity of the null ideal small, Proc. Amer. Math. Soc. 125 (1997), 2443–2451

Embeddings of Cohen algebras, with S. Shelah, Adv. Math. 126 (1997), 93–119

Semi-Cohen boolean algebras, with B. Balcar and T. Jech, Ann. Pure Appl. Logic 87 (1997), 187–208

Strongly almost disjoint functions, Israel J. Math. 97 (1997), 101–111

Small forcings and Cohen reals, J. Symbolic Logic 62 (1997), 280–284

Splitting number at uncountable cardinals, J. Symbolic Logic 62 (1997), 35–42

A classification of definable partial orders on omega one, Fund. Math. 153 (1997), 141-144

Characterization of the club forcing, in Papers on General Topology and Applications, S. Andima, R. Flagg, G. Itzkowitz, Y. Kong, R. Kopperman amd P. Misra, eds., Annals of the New York Academy of Sciences 806 (1996), 476–484

A new proof of Kunen inconsistency, Proc. Amer. Math. Soc. 124 (1996), 2203-2205

More on the cut and choose game, Ann. Pure Appl. Logic 76 (1995), 291–301

Ph. D. students

Yuan-Chyuan Sheu, UF (Ph.D. 2005) currently data scientist at Resonate Networks

Michal Doucha, Charles University, Prague (Ph. D. 2013) currently Marie Curie Fellow at Polish Academy of Sciences

Francis Adams, UF (current)

Timothy Dukes, UF

Thomas Winckler, UF

Grants

2014-present NSF grant DMS 362273 to organize annual weekend logic conference at UF, USD45000

2012-present NSF grant DMS 1161078

2010/2011 AIP project MEB051006, cooperation between Academy of Sciences, Czech Republic, and University of Wroclaw, CZK132000

2009/2010 AIP project MEB060909, cooperation between Academy of Sciences, Czech Republic, and Kurt Goedel Center in Vienna, CZK126000

2009-2012 Purkyně fellowship, Czech Academy of Sciences

2009-2013 grant IAA100190902 of Grant Agency of the Academy of Sciences of the Czech Republic

2008-2012 NSF grant DMS 0801114, $110000

2006-2007 NSF grant DMS 0532644 (PI) to organize special year in logic at UF, $138000

2003-2006 grant GA ČR 201-03-0933 of the Grant Agency of Czech Republic
2003-2006 NSF grant DMS 0335481 to organize an annual logic conference at
UF, $15000
2003-2006 NSF grant DMS 0300201 $103827
2000-2003 NSF grant DMS 0071437, $61431
2000-2003 grant GA ČR 201-00-1466 of the Grant Agency of Czech Republic
1997-2000 grant GA ČR 201-97-0216 of the Grant Agency of Czech Republic

Selected lectures at meetings

January 2016, ASL Winter meeting, plenary lecture
May 2015, Rutgers, five lecture tutorial
April 2015, Fields Institute, Forcing and its applications retrospective workshop
October 2014, 17th International workshop in set theory, Luminy, France
May 2014, Bedlewo Young Set Theory meeting, three lecture tutorial
January 2014, Set theory workshop MFO Oberwolfach, Germany
February 2013, Winter School in Set Theory and Topology, three lecture tutorial
November 2012, Fields Institute, Iterated forcing workshop
May 2012, RATLoCC Bertinoro, Italy
January 2011 Oberwolfach set theory meeting
January 2008 Oberwolfach set theory meeting
October 2007 Special session, AMS regional meeting, Rutgers
July 2007 First European Set Theory Meeting, Bedlewo, Poland
October 2006 Luminy set theory meeting
August 2005 Logic Colloquium, Athens, plenary lecture
March 2004 Midrasha Mathematicae, Jerusalem, a three lecture tutorial

University Governance and Service

2015 Steering committee
2007-8 Colloquium committee, Visitors and conferences committee
2006-7 Postdoc search committee (chair), Visitors and conferences committee
2005-6 Postdoc search commitee (chair), Visitors and conferences committee
2004-5 Group proposals committee, Visitors and conferences committee
2002-3 Visitors and conferences committee
2001-2 Visitors and conferences committee

Refereeing activities

Referee: Advances in Mathematics, Annals of Pure and Applied Logic, Journal
of Symbolic Logic, Fundamenta Mathematica, Order, Proceedings of American
Mathematical Society, University Lecture Series of AMS
Reviewer: DMS NSF, Israel Science Foundation, United States-Israel Binational
Science Foundation, Wissenschaftfonds (Austrian scientific foundation),
Panelist: DMS NSF (multiple panels)

Honors

2009 Purkyně Fellowship, Academy of Sciences, Czech Republic
2001 CLAS research award of University of Florida
1995 Pritchard dissertation fellowship, The Pennsylvania State University

Conferences Organized

Winter school in theory 2011 and 2012, Hejnice, Czech Republic, program committee

events of the Special year in Logic 2006-7 at UF, including 6 major meetings and hundreds of guests

South East Logic Symposium, University of Florida, March 2001, 2003, 2004, 2006, 2008, 2015

Extended Visits

August-December 2012 Fields Institute, Toronto
June 2004 Universidad Nacional Autonoma de Mexico, Morelia, Mexico
November-December 2003 York University, Toronto
September-November 2003 CRM, Universita Autonoma Barcelona
July 2003 National University of Singapore
June 2003 Kobe University, Kobe, Japan
May 2003 California Institute of Technology
July-August 2002 Academia Sinica, Beijing
June 2002 Universite Paris VII, and IHES
April-May 2002 International Graduate School, Friedrich-Wilhelms Universität Bonn
February-March 2002 Hebrew University, Jerusalem