Martin Doležal

Personal Information

Date of Birth: 22 March 1985

Education

Charles University in Prague, Faculty of Mathematics and Physics	Ph.D.
Study program Mathematics, branch Mathematical Analysis	2009 - 2013
Ph.D. thesis: Applications of descriptive set theory in mathematical analysis	
Charles University in Prague, Faculty of Mathematics and Physics	Mgr.
Graduated with distinction	2007 - 2009
Charles University in Prague, Faculty of Mathematics and Physics	Bc.
Graduated with distinction	2004 - 2007

Professional Experience

Institute of Mathematics of the Czech Academy of Sciences	Postdoc
Topology and Functional Analysis department	01/2014 - $present$

Faculty of Informatics and Statistics, University of Economics, Prague

Department of Mathematics

Associate professor
09/2013 - 12/2013

Grants and Awards

2016	Grant 16-07378S: Nonlinear analysis in Banach spaces, Czech Science Foundation. Role: team member.
2014 - 2015	Fellowship founded by the Czech Academy of Sciences: Support Programme for the Perspective Human Resources. The competition was open to all fields of science (not restricted to mathematics).
2010 - 2012	Grant 149410: Applications of descriptive set theory in mathematical analysis, Charles University Grant Agency. Role: leader.
2008 - 2009	The award of the Dean of the Faculty of Mathematics and Physics for the best master thesis of the academic year.
2009	First place in the competition SVO $\check{\mathbf{C}}$ (a competition of students from Czech and Slovak universities in a scientific activity in mathematics).

Research Visits

University of Auckland

Auckland, New Zealand

2016

Lectures at Conferences

Winter School in Abstract Analysis Svratka, Czech Republic	01/2016
Winter School in Abstract Analysis Svratka, Czech Republic	01/2015
Interactions between Algebra and Functional Analysis Prague, Czech Republic	12/2014
Joint Prague-Vienna Logic & Set Theory Meeting Prague, Czech Republic	10/2014
Real Analysis Exchange Summer Symposium Budapest, Hungary	06/2011
Week of doctoral students Prague, Czech Republic	06/2010
Winter School in Abstract Analysis Kácov, Czech Republic	01/2009
Winter School in Abstract Analysis Lhota nad Rohanovem, Czech Republic	01/2008

Publications and Preprints

- 13. M. Doležal, J. Hladký, Matching polytons, submitted.
- 12. M. Doležal, J. Hladký, P. Hu, D. Piguet, First steps in combinatorial optimization on graphons: Matchings (extended abstract), submitted.
- 11. M. Doležal, V. Vlasák, *Haar meager sets, their hulls, and relationship to compact sets*, to appear in J. Math. Anal. Appl.
- 10. M. Doležal, W. Kubiś, Perfect independent sets with respect to infinitely many relations, to appear in Arch. Math. Logic.
- 9. M. Doležal, J. Hladký, A. Máthé, *Cliques in dense inhomogenous random graphs*, to appear in Random Struct. Algorithms.
- 8. M. Doležal, D. Preiss, M. Zelený, *Infinite games and σ-porosity*, to appear in Israel J. Math.

- 7. M. Doležal, M. Rmoutil, B. Vejnar, V. Vlasák, *Haar meager sets revisited*, J. Math. Anal. Appl. 440 (2016), no. 2, 922–939.
- 6. M. Doležal, B. Vejnar, Classification of the spaces $C_p^*(X)$ within the Borel-Wadge hierarchy for a projective space X, Topology Appl. 183 (2015), 11–17.
- 5. M. Doležal, Unitary representations of finite abelian groups realizable by an action, Topology Appl. 164 (2014), 87–94.
- 4. M. Doležal, P. Ludvík, P. Pošta, P. Pyrih, M. Rmoutil, B. Vejnar, Arcwise connected continuum with a free arc and with the fixed set property for monotone onto maps, Questions Answers Gen. Topology 30 (2012), no. 2, 135–137.
- 3. M. Doležal, Characterization of σ -porosity via an infinite game, Fund. Math. 216 (2012), no. 2, 109–118.
- 2. M. Doležal, P. Pošta, P. Pyrih, M. Rmoutil, B. Vejnar, *Chain of dendrites without monotone supremum*, Questions Answers Gen. Topology 29 (2011), no. 2, 131–133.
- 1. M. Doležal, A note on the three-segment problem, Math. Bohem. 134 (2009), no. 2, 211–215.

Teaching Experience

Faculty of Informatics and Statistics, University of Economics, Prague

2013

Exercise sessions in a basic course in calculus and linear algebra

Charles University in Prague, Faculty of Mathematics and Physics

2009 - 2013

Exercise sessions in basic calculus courses