

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** Associate professor
Department of Mathematics 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 SVOČ (a competition of students from Czech and Slovak
universities in a scientific activity in mathematics).

Lectures at Conferences

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

Publications and Preprints

11. M. Doležal, V. Vlasák, *Haar meager sets, their hulls, and relationship to compact sets*, submitted.
10. M. Doležal, W. Kubiś, *Perfect independent sets with respect to infinitely many relations*, submitted.
9. M. Doležal, J. Hladký, A. Máthé, *Cliques in dense inhomogenous random graphs*, submitted.
8. M. Doležal, M. Rmoutil, B. Vejnar, V. Vlasák, *Haar meager sets revisited*, to appear in J. Math. Anal. Appl.
7. M. Doležal, D. Preiss, M. Zelený, *Infinite games and σ -porosity*, to appear in Israel J. Math.
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