Martin Doležal

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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, 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*

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

Grants and Awards

Grant from the **Grant Agency of Charles University** in the years 2010 - 2012 (project *Applications of descriptive set theory in mathematical analysis*)

The award of the Dean of the Faculty of Mathematics and Physics for the best master thesis of the academic year 2008/09

First place in the competition **SVOČ 2009** (a competition of students from Czech and Slovak universities in a scientific activity in mathematics)

Lectures at Conferences

Winter School in Abstract Analysis   01/2015
Svratka, Czech Republic

Interactions between Algebra and Functional Analysis   12/2014
Prague, Czech Republic

Joint Prague-Vienna Logic & Set Theory Meeting   10/2014
Prague, Czech Republic

Real Analysis Exchange Summer Symposium   06/2011
Budapest, Hungary

Week of doctoral students   06/2010
Prague, Czech Republic

Winter School in Abstract Analysis   01/2009
Kácov, Czech Republic

Winter School in Abstract Analysis   01/2008
Lhota nad Rohanovem, Czech Republic

Publications and Preprints

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*, submitted

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