

Curriculum Vitae

Michal Kraus

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Contact Information

Address: Institute of Mathematics AS CR

Žitná 25

115 67 Praha 1

Czech Republic

Email: kraus@math.cas.cz

Academic Positions

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| Jul 2014 – present | Postdoctoral Fellow
Institute of Mathematics, The Academy of Sciences of the Czech Republic, Prague,
Czech Republic |
| Nov 2012 – Dec 2013 | Postdoctoral Fellow
Pohang Mathematics Institute, Pohang University of Science and Technology, Po-
hang, South Korea |

Education

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| 2007–2012 | Ph.D. study in Mathematics
Department of Mathematical Analysis, Faculty of Mathematics and Physics, Charles Univer-
sity in Prague, Czech Republic
Ph.D. Thesis: <i>Some results in convexity and in Banach space theory</i>
Supervisor: Jaroslav Lukeš
September 2011 – June 2012 spent in the Laboratoire de Mathématiques, Université de
Franche-Comté, in Besançon, France, under the direction of Gilles Lancien. |
| 2002–2007 | Master study in Mathematics
Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic
Master Thesis: <i>Integral representation theorems in noncompact cases</i> (in Czech)
Supervisor: Jaroslav Lukeš |

Research Interests

Functional analysis, principally the nonlinear geometry of Banach (or more generally quasi-Banach) spaces and related topics.

Publications

6. *On the equivalence between coarse and uniform embeddability of quasi-Banach spaces into a Hilbert space*, 2013, to appear in Proc. Amer. Math. Soc.
5. *Coarse and uniform embeddings between Orlicz sequence spaces*, Mediterr. J. Math. 11 (2014), no. 2, 653–666.
4. (with P. Hájek) *Polynomials and identities on real Banach spaces*, J. Math. Anal. Appl. 385 (2012), no. 2, 1015–1026.

3. *Point simpliciality in Choquet theory on nonmetrizable compact spaces*, Bull. Sci. Math. 135 (2011), no. 3, 312–323.
2. *Two remarks on remotality*, J. Approx. Theory 163 (2011), no. 3, 307–310.
1. *A note on the uniform approximation of continuous affine functions*, Expo. Math. 27 (2009), no. 1, 73–78.

Academic Visits

10 Nov 2014 – 19 Dec 2014 Laboratoire de Mathématiques de Besançon, France

Participation in Conferences and Schools

Nov 2014 Fall School “Metric Embeddings : Constructions and Obstructions”, Paris, France
Talk: *On Assouad’s embedding technique*

Oct 2014 Conference on Geometric Functional Analysis and its Applications, Besançon, France

Oct 2014 Autumn School on Nonlinear Geometry of Banach Spaces and Applications, Métabief, France

Jan/Feb 2013 The 7th ILJU School of Mathematics - Banach Spaces and Related Topics, Gyeongju, South Korea

Aug 2012 Geometry of Banach Spaces, Luminy (Marseille), France

Jun 2012 Rencontre d’analyse fonctionnelle Besançon-Neuchâtel, Neuchâtel, Switzerland
Talk: *Coarse and uniform embeddings between Orlicz sequence spaces*

Jun 2012 Banach Spaces Workshop, Birmingham, UK

Jan 2012 Winter School in Abstract Analysis, Klenčí pod Čerchovem, Czech Republic

Oct 2011 Journées du Gdr AFHA, Clermont-Ferrand, France

Jan 2011 Winter School in Abstract Analysis, Kácov, Czech Republic

Jun 2010 International Functional Analysis Meeting, Valencia, Spain

Jan 2010 Winter School in Abstract Analysis, Klenčí pod Čerchovem, Czech Republic

Jul 2009 Advanced Course on Optimization: Theory, Methods and Applications, Bellaterra (Barcelona), Spain

May/June 2009 Spring School on Analysis, Paseky nad Jizerou, Czech Republic

Jan 2009 Winter School in Abstract Analysis, Kácov, Czech Republic

Apr 2008 Spring Conference on Banach Spaces, Paseky nad Jizerou, Czech Republic

May/June 2007 Spring School on Analysis, Paseky nad Jizerou, Czech Republic

Jan 2007 Winter School in Abstract Analysis, Lhota nad Rohanovem, Czech Republic

Apr 2006 Spring School on Variational Analysis, Paseky nad Jizerou, Czech Republic

May/June 2005 Spring School on Analysis, Paseky nad Jizerou, Czech Republic

Seminar Talks

18 Nov 2014 *Hilbert space compression exponents of quasi-Banach spaces*
Séminaire d’Analyse Fonctionnelle, Laboratoire de Mathématiques de Besançon, France

2 May 2013 *Nonlinear geometry of Banach spaces*
T-Seminar, Pohang Mathematics Institute, South Korea

13, 15 Nov 2012 *Nonlinear geometry of Orlicz sequence spaces*
Functional Analysis Seminar, Pohang Mathematics Institute, South Korea

21 Jun 2012 *Coarse and uniform embeddings between Orlicz sequence spaces*
Séminaire d’Initiation à l’Analyse, Institut de Mathématiques de Jussieu, Paris, France

29 Nov 2011 *Polynomials and identities on real Banach spaces*
Séminaire d’Analyse Fonctionnelle, Laboratoire de Mathématiques de Besançon, France

- 19 Apr 2010 *Farthest points of convex sets in Banach spaces*
Mathematical Analysis Seminar, Department of Mathematical Analysis, Charles University in Prague, Czech Republic
- 3 Dec 2007, *Noncompact Choquet theory*
6 Jan 2008 Mathematical Analysis Seminar, Department of Mathematical Analysis, Charles University in Prague, Czech Republic

Professional Service

Reviewer for Mathematical Reviews - since 2012