

Curriculum Vitae

Michal Kraus

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Contact Information

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Personal

Born: 3 December 1982 in České Budějovice, Czechoslovakia (now Czech Republic)

Citizenship: Czech Republic

Academic Positions

Nov 2012 – Dec 2013 Postdoctoral Fellow
Pohang Mathematics Institute, Pohang University of Science and Technology, Pohang, South Korea

Education

2007–2012 Ph.D. study in Mathematics
Department of Mathematical Analysis, Faculty of Mathematics and Physics, Charles University in Prague, Czech Republic
Ph.D. Thesis: *Some results in convexity and in Banach space theory*
Supervisor: Jaroslav Lukeš
Degree received 26 September 2012.
September 2011 – June 2012 spent in the Laboratoire de Mathématiques, Université de Franche-Comté, 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: *Integral representation theorems in noncompact cases* (in Czech)
Supervisor: Jaroslav Lukeš
Degree received 13 September 2007.

Research Interests

Functional analysis; especially nonlinear geometry of Banach spaces and related areas.

Publications

Papers:

7. *Hilbert space compression exponents of quasi-Banach spaces*, in preparation.
6. *On the equivalence between coarse and uniform embeddability of quasi-Banach spaces into a Hilbert space*, 2013, submitted. (arXiv: <http://arxiv.org/abs/1309.0747>)
5. *Coarse and uniform embeddings between Orlicz sequence spaces*, 2012, to appear in *Mediterr. J. Math.* (arXiv: <http://arxiv.org/abs/1207.3967>)

4. (with P. Hájek) *Polynomials and identities on real Banach spaces*, J. Math. Anal. Appl. 385 (2012), 1015–1026.
3. *Point simpliciality in Choquet theory on nonmetrizable compact spaces*, Bull. Sci. Math. 135 (2011), 312–323.
2. *Two remarks on remotality*, J. Approx. Theory 163 (2011), 307–310.
1. *A note on the uniform approximation of continuous affine functions*, Expo. Math. 27 (2009), 73–78.

Theses:

- *Some results in convexity and in Banach space theory*, Ph.D. Thesis, Charles University in Prague, 2012.
- *Integral representation theorems in noncompact cases*, Master Thesis, Charles University in Prague, 2007 (in Czech).

Participation in Schools and Conferences

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
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

2 May 2013	<i>Nonlinear geometry of Banach spaces</i> T-Seminar, Pohang Mathematics Institute, South Korea
13, 15 Nov 2012	<i>Nonlinear geometry of Orlicz sequence spaces</i> Functional Analysis Seminar, Pohang Mathematics Institute, South Korea
21 Jun 2012	<i>Coarse and uniform embeddings between Orlicz sequence spaces</i> Séminaire d'Initiation à l'Analyse, Institut de Mathématiques de Jussieu, Paris, France
29 Nov 2011	<i>Polynomials and identities on real Banach spaces</i> Séminaire d'Analyse Fonctionnelle, Laboratoire de Mathématiques de Besançon, France
19 Apr 2010	<i>Farthest points of convex sets in Banach spaces</i> Mathematical Analysis Seminar, Department of Mathematical Analysis, Charles University in Prague, Czech Republic

3 Dec 2007,
6 Jan 2008

Noncompact Choquet theory

Mathematical Analysis Seminar, Department of Mathematical Analysis, Charles University in Prague, Czech Republic

Teaching

At Charles University in Prague:

2009/10	Summer semester	Functional Analysis III - practicals
2009/10	Winter semester	Functional Analysis II - practicals
2008/09	Summer semester	Functional Analysis I - practicals
2008/09	Winter semester	Introduction to Functional Analysis - practicals
2007/08	Summer semester	Introductory Seminar on Calculus 1b

Professional Service

Reviewer for Mathematical Reviews - since 2012