

Curriculum Vitae

Name Boldizsár Kalmár

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Research Interest Global topology of singular maps, low-dimensional topology, singularity theory

Employment Researcher at Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, Hungary, Apr 2011–
Researcher (Magyary Zoltán Fellowship), Central European University, Budapest, Hungary, Oct 2009–Mar 2011
Young Researcher, Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, Hungary, Sep 2009
Research Assistant, Graduate School of Mathematics, Kyushu University, Japan, May 2006–Mar 2007
Researcher (Canon Foundation Fellowship), Faculty of Mathematics, Kyushu University, Japan, Feb 2006–Feb 2007
Research Assistant, Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, Hungary, Sep 2005–Feb 2006

Studies Visitor at Max Planck Institute for Mathematics, Jan 2013 – Jun 2013
PhD in Mathematics (Thesis: “Fold maps, their geometric invariants, and computations of cobordism groups”), Kyushu University, Japan, 2006–2008
MSc in Mathematics (Thesis: “Pontrjagin-Thom construction for singular maps with negative codimension”), Eötvös Loránd University, Budapest, Hungary, 2000–2005
Undergraduate student at the Faculty of Computer Science, Eötvös Loránd University, Budapest, Hungary, 1997–2000

Honors and Awards Magyary Zoltán Postdoctoral Fellowship, Oct 2009–Mar 2011
JSPS Research Fellowship for Young Scientists, Apr 2007–Mar 2009
Canon Foundation in Europe Fellowship, Feb 2006–Feb 2007
Rényi Kató Prize, 2004

Refereed publications: “Interlacement of double curves of immersed spheres”, *Disc. Comp. Geom.* **55** (2016), 550–570.
w. A. Stipsicz, “Singular maps on exotic 4-manifold pairs”, *Alg. Geom. Topol.* **13** (2013), 1709–1731.
w. A. Stipsicz, “Maps on 3-manifolds given by surgery”, *Pacific J. Math.* **257** (2012), 9–35.
w. T. Terpai, “Characteristic classes and existence of singular maps”, *Trans. Amer. Math. Soc.* **364** (2012), 3751–3779.

- “Fold cobordisms and stable homotopy groups”, *Studia Scient. Math. Hungar.* **46** (2009), 437–447.
- “Fold maps and immersions from the viewpoint of cobordism”, *Pacific J. Math.* **239** (2009), 317–342.
- “Cobordism invariants of fold maps”, *Real and complex singularities, Contemporary Mathematics* **459** (2008), 103–115.
- “Cobordism group of fold maps of oriented 3-manifolds into the plane”, *Acta Math. Hungar.* **117** (2007), 1–25.
- “Cobordism group of Morse functions on unoriented surfaces”, *Kyushu J. Math.* **59** (2005), 351–363.

- Conference talks** (j.w. T. Terpai) Singularity theory of smooth maps and related geometry, RIMS workshop, Tokyo, Dec 2009
- Four Dimensional Topology, Hiroshima Topology Conference, Hiroshima University, Jan 2009
- Geometry of singularities and manifolds, Kusatsu, Japan, Sep 2008
- Four Dimensional Topology, Hiroshima Topology Conference, Hiroshima University, Feb 2008
- The Second Japanese-Australian Workshop on Real and Complex Singularities, RIMS, Kyoto, Nov 2007
- Conference in Honor of the 60th Birthday of Yoshifumi Ando, Kinki University, Osaka, Oct 2007
- The 3rd COE Conference for Young Researchers, Hokkaido University, Feb 2007
- Singularities and O-minimal Category, RIMS, Kyoto, Nov 2006
- 9th International Workshop on Real and Complex Singularities, ICMC–USP–Sao Carlos, Brazil, Jul 2006
- Singularity Theory, Local vs Global, Yamaguchi University, Jun 2006
- Manifolds and their Mappings, 5th International Siegen Topology Symposium, University of Siegen, Jul 2005