Karol Strzałkowski

Personal Data

Date of Birth 15 May 1988 E-mail kstrzal@impan.pl

Scientific Interests

Geometric Group Theory simplicial volume, bounded cohomology, coarse geometry Algebraic Topology

characteristic classes, topology of manifolds

Education

- 2012-2016 **PhD Programme in Mathematics**, *Polish Academy of Sciences*, Warsaw, Poland. Thesis: "Lipschitz simplicial volume", supervisors: dr hab. Andrzej Weber, dr Piotr Nowak
- 2010-2012 **M.Sc. Programme in Mathematics**, *University of Warsaw*, Warsaw, Poland. Thesis: "Partial sphere operads", supervisor: prof. dr hab. Henryk Żołądek
- Oct 2011-Jan Non-Graduating Student in Mathematical Sciences (Erasmus), University of 2012 Aberdeen, Aberdeen, United Kingdom. Independent study in mathematical sciences
 - 2007-2011 B.Sc. Simultaneous Programme in Mathematics and Computer Science, University of Warsaw, Warsaw, Poland.
 Thesis: "Zgrubne grafy i kompleksy symplicialne, supervisor: prof. dr hab. Sławomir Nowak; "System obsługi stypendiów", supervisor: Janusz Jabłonowski
 - 2004-2007 8th High School in Katowice, mathematics and physics profile.

Visiting positions

Aug-Dec 2016 **Postdoctoral Fellowship**, *MSRI*, Berkeley, California, USA. Geometric Group Theory programme

Grants

2015-2017 Preludium pre-doctoral grant of National Science Centre UMO-2014/13/N/ST1/02421: 'Simplicial volume'

Papers

2016 Piecewise straightening and Lipschitz simplicial volume Journal of Topology and Analysis, online ready (2016)

Conference and seminar talks

- Apr 2016 Combinatorics and Groups, Będlewo, Poland talk title: Lipschitz simplicial volume and amenability
- Jun 2015 Conference on Geometric Group Theory, Wrocław, Poland talk title: Lipschitz simplicial volume and piecewise straightening
- Dec 2014 Oberseminar Globale Analysis, Universität Regensburg, Regensburg, Germany talk title: Piecewise straightening and Lipschitz simplicial volume
- Dec 2013, Jan Topology and Geometry of Configuration Spaces, Będlewo, Poland 2014 talk title: Spectral Sequences
 - Mar 2013 Konferencja przygotowawcza do XV Wykładu A. Jankowskiego, Sandomierz, Poland talk title: Margulis Lemma
 - Feb 2012 Student Workshops in Differential Topology, Warsaw, Poland talk title: Bott Periodicity Theorem

Attended conferences and workshops

- Apr 2016 Combinatorics and Groups, Będlewo, Poland
- Apr 2016 Topological and Homological Methods in Group Theory, Bielefeld, Germany
- Feb 2016 Young Geometric Gropu Theory V, Karlsruhe, Germany
- Sep 2015 Topology retreat, Będlewo, Poland
- Jun 2015 Growth, Symbolic Dynamics and Combinatorics of Words i Groups, Paris, France
- Jan 2015 Young Geometric Group Theory IV, Spa, Belgium
- Sep 2014 DMV-PTM Meeting & Satellite conference, Będlewo and Poznań, Poland
- Aug 2014 Homological invariants in low dimensional topology and geometry, Dublin, Ireland
- Oct 2013 Geometry and Groups after Thurston, Dublin, Ireland
- May 2013 Geometric Group Theory Student Workshop, Będlewo, Poland
- Feb 2013 Young Geometric Group Theory II, Haifa, Israel
- Sep 2012 Summer School on Automorphisms of Free Groups, Barcelona, Spain
- Mar 2012 Spring School in Functional Analysis, Będlewo, Poland
- Jun 2011 Summer School in Algebraic Geometry, Międzybrodzie Bialskie, Poland

Teaching

- 2013-2015 recitation classes tutor at the University of Warsaw courses: Geometry and Linear Algebra, Linear Algebra (for Economy)
- 2010-2011 remedial classes tutor at the University of Warsaw courses: Mathematical Analysis II, Discrete Mathematics (for Computer Science)
 - 2009 grader at the University of Warsaw course: Geometry and Linear Algebra I

Achievements

2012-2015 fellowship of the Warsaw Center of Mathematics and Computer Science
2012 polish actuarial exam passed, part: probability and statistics
2008-2012 scholarship for academic performance
2007 6th place ex aequo at the 58th Polish Mathematical Olympiad
2006 finalist of the 57th Polish Mathematical Olympiad

Skills

Languages Science related software programming

Polish(native), English(fluent), German(modest) LATEX, Matlab/Octave C/C++, Java, Python, Pascal, Haskell

Other Interests

music, harmonica playing, mountain hiking, climbing, Ignatian spirituality