

Education

- PhD studies at the Faculty of Mathematics, Wrocław. 2011-2015
 Msc studies at the Faculty of Mathematics, Wrocław. 2006-2011
- PhD thesis: Gromov positive scalar curvature conjecture
 and macroscopically small homologically large manifolds.
 Advisor: Światosław R. Gal.
 Co-advisor: Piotr W. Nowak.

Papers and preprints

- ★ Qualitative counting closed geodesics.
with B. Karlhofer, J. Kędra, A. Trost, submitted
- ★ Bounded cohomology of transformation groups.
with M. Brandenbursky, submitted.
- ★ Aut-invariant word norm on right angled Artin and Coxeter groups.
 accepted in Michigan Journal of Mathematics.
- ★ Entropy and quasimorphisms.
with M. Brandenbursky, Journal of Modern Dynamics, 15 (2019).
- ★ Aut-invariant norms and quasimorphisms on surface and free groups.
with M. Brandenbursky, Commentarii Mathematici Helvetici, 94 (2019), no. 4.
- ★ Bughelea conjecture and asymptotic dimension of groups.
with A. Engel, accepted in Journal of Topology and Analysis.
- ★ The Gromov PSC conjecture and homologically small macroscopically
 large manifolds.
Journal of Topology 9 (2016), no. 1.
- ★ Cancellation norm and the geometry of biinvariant word metrics.
with M. Brandenbursky, Ś.R.Gal, J. Kędra. Glasgow Math. J. 1 (2016), no. 58.
- ★ Aperiodic tilings of manifolds of intermediate growth.
with Piotr W. Nowak. Geometry, Groups and Dynamics 8 (2014), no. 2.

Talks in conferences

- ★ Bounded cohomology of transformation groups.
 - *Cohomological methods (part of the Simons semester), Warsaw, 8-12.04.2019,*
 - *Workshop on Bounded Cohomology, Heidelberg, 29.07-02.08.2019.*
- ★ Entropy and quasimorphisms.
 - *UMI-SIMAI-PTM - Joint meeting, Wrocław, 17-20.09.2018,*
 - *GAGTA, Seoul, 15-20.07.2018,*
 - *Annual meeting of the Deutsche Mathematiker-Vereinigung, Paderborn, 05-09.03.2018,*
 - *Dynamics of (semi-)groups actions, Łódź, 9-12.07.2019,*
 - *Jubilee Congress for the 100th anniversary of the Polish Mathematical Society Kraków, 3-7.09.2019.*
- ★ Examples of topologically large but homologically small manifolds.
Annual Meeting of the Israeli Mathematical Union, Dead see, 02-05.06.2016.
- ★ Macroscopically large rationally inessential manifolds.
Conference of Geometric Group Theory, Wrocław 05-06.2015.
- ★ The Gromov PSC conjecture and homologically small macroscopically
 large manifolds.
Analysis, Geometry and Topology of PSC Metrics workshop in Oberwolfach, 07.2014.

Awards

2016: Minister of Science and Higher Education of Poland Award.
2009/2010, 2010/2011: Scholarship of the Polish Ministry of Education.
2006: 2nd Prize, European Union Contest for Young Scientists, Stockholm.
2005: 1st Prize, International Mathematical Olympiad Baltic Way, Stockholm.
2004: Laureate of LVI Polish Mathematical Olympiad.

Organized conferences

- ★ "Constructing Aspherical Manifolds and Complexes"
with A. Engel, Frauenchiemsee 09.2018.
- ★ "Groups and spaces of non-positive curvature"
with A. Engel, Regensburg 08.2017.
- ★ "Large Scale Dimensions"
with A. Engel, Regensburg 07.2016.

Other activities

- ★ I co-organised several summer and winter schools of mathematics for students.
- ★ I am a member of a Polish Mathematical Olympiad regional committee (Wrocław).

January 29, 2020