

Krzysztof Świącicki

Personal Data

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Employment

2022–present Associate Professor, Wrocław University of Science and Technology.
2021–2022 Assistant Professor, Wrocław University of Science and Technology.

Education

- 2021 Ph.D. in mathematics, Texas A&M University. Thesis: “Nonlinear Embeddings into Banach Spaces”. Advisors: Guoliang Yu, Florent Baudier.
- 2013 M.Sc. in mathematics, University of Warsaw. Thesis: “Helly’s theorem for systolic complexes”. Advisor: Paweł Zawiślak.
- 2012 B.Sc. in mathematics, University of Warsaw. Thesis: “Lorentz group and pseudo-orthogonal groups”. Advisor: Stefan Jackowski.

Articles

No dimension reduction for doubling subsets of ℓ_q when $q > 2$ revisited, J. Math. Anal. Appl. 504, (2021), no. 2, 125407
Equivariant coarse embeddability into ℓ_p implies isomorphic embeddability, for $p \neq 2$, submitted, preprint available on [arXiv:2012.00097](https://arxiv.org/abs/2012.00097).
Helly’s theorem for systolic complexes, submitted, preprint available on [arXiv:1405.5194](https://arxiv.org/abs/1405.5194).

Talks

- Sep 2023 Groups and Rigidity Around the Zimmer Program, Ventotene, Italy.
- Aug 2022 Glasgow Late August Symbolic Dynamics, Groups, and Operators Workshop, Glasgow, Scotland.
- Nov 2021 Banach spaces webinar, Denton, Texas.
- Nov 2021 Geometry Seminar, Wrocław, Poland.
- Apr 2019 Redbud topology conference, Norman, Oklahoma.
- Feb 2019 The Gathering in Graduate Expository Mathematics, College Station, Texas.
- Apr 2016 Graduate Student Topology & Geometry Conference, Bloomington, Indiana.
- Jun 2015 30th Summer Conference on Topology and its Applications, Galway, Ireland.

- Jun 2014 Differential Geometry and Topology Seminar, Wrocław, Poland.
- May 2014 Geometric structures and representation varieties junior retreat, Ann Arbor, Michigan.
- Apr 2014 Groups and Dynamics Seminar, College Station, Texas.
- Feb 2014 Texas A&M, Graduate Student Seminar, College Station, Texas.
- May 2013 Geometric Group Theory Student Workshop, Będlewo, Poland.
- Jan 2013 Geometric Group Theory Seminar, Warsaw, Poland.
- Feb 2012 Workshop in Differential Topology, Warsaw, Poland.

Selected Conferences and Workshops

- Jul 2019 Young geometric group theory VIII, Bilbao, Spain.
- Jun 2019 Simons semester on geometric and analytic group theory, Warsaw, Poland.
- Jan 2019 Groups of dynamical origin II, Mexico City, Mexico.
- Sep 2018 Workshop on Analysis on Groups and Measured Group Theory, Austin, Texas.
- Mar 2018 7th Young Geometric Group Theory Meeting, Les Diablerets, Switzerland.
- Feb 2017 Groups of dynamical origin, Mexico City, Mexico
- Dec 2016 Amenability, coarse embeddability and fixed point properties, Berkeley, California.
- Oct 2016 Geometry of mapping class groups and $\text{Out}(F_n)$, Berkeley, California.
- Jul 2016 Large scale dimensions, Regensburg, Germany.
- Jun 2016 Geometric topology workshop, Colorado Springs, Colorado.
- May 2016 Cornell topology festival, Ithaca, New York.
- Apr 2016 Shanks workshop on geometric methods in group theory, Nashville, Tennessee.
- Feb 2016 ESI winter school: Measured group theory, Vienna, Austria.
- Nov 2015 Geometric and probabilistic methods in group theory and dynamical systems, College Station, Texas.
- Nov 2015 Texas Geometry and Topology Conference, Houston, Texas.
- Aug 2015 Invariants in Low Dimensional Geometry, Ankara, Turkey.
- Aug 2015 Workshop on Invariants of Knots, Surfaces, and 3-Manifolds, Ankara, Turkey.
- Jun 2015 Conference on Geometric group theory, Wrocław, Poland.
- Jun 2015 Growth, Symbolic Dynamics and Combinatorics of Words in Groups, Paris, France.
- Mar 2015 Graduate Student Topology & Geometry Conference, Urbana-Champaign, Illinois.
- Jan 2015 4th Young Geometric Group Theory Meeting, Spa, Belgium.
- Jun 2014 Growth in groups, Neuchatel, Switzerland.
- May 2014 Geometric structures and representation varieties junior retreat, Ann Arbor, Michigan.
- Apr 2014 Rice Dynamics Meetings, Houston, Texas.

- Apr 2014 Redbud topology conference, Norman, Oklahoma.
- Mar 2014 Geometric groups on the gulf, Pensacola, Florida.
- Jan 2014 3rd Young Geometric Group Theory Meeting, Luminy, France.
- Apr 2013 Winter School on Analysis, Będlewo, Poland.
- Feb 2013 2nd Young Geometric Group Theory Meeting, Haifa, Israel.
- Sep 2012 Graphs and Groups, Lille, France.
- Jul 2012 PCMI/IAS Graduate Summer School on Geometric Group Theory, Park City, Utah.
- Jan 2012 1st Young Geometric Group Theory Meeting, Będlewo, Poland.

Grants & Awards

- 2021 Kovalevskaya grant for early career mathematicians.
- 2013 2nd prize, Polish Mathematical Society Józef Marcinkiewicz Memorial Prize for the Best Student Paper in Mathematics.

Organizing

- 2019 Working Seminar on Bass-Serre Theory
- 2015-2021 Student Working Seminar in Groups and Dynamics,
<https://www.math.tamu.edu/~justincc/swsgd/swsgd.html>
- 2010-2011 Seminar on Quantum Field Theories, <http://qft.mimuw.edu.pl/>

Selected Outreach

- 2017 volunteer at high school math contest at Texas A&M
- 2015 volunteer at TAMU Science Career Fair
- 2015 volunteer at Pi Day of the Century at Texas A&M
- 2010 volunteer at the Science Picnic, Warsaw, Poland

Teaching experience

Instructor of Record / Lecturer

- Analiza I (Analysis I) Fall 2022, Fall 2023
- Mathematics (for Economists) Spring 2023
- Math Modeling Spring 2022, Spring 2023
- Math 142 (Business Calculus) Summer 2017

Recitations / TA

- Algebra I (Linear algebra I) Fall 2021, Fall 2023
- Analiza I (Analysis I) Fall 2021, Fall 2022, Fall 2023
- Analiza II (Analysis II) Spring 2022
- Mathematics (for Economists) Spring 2023
- Math 666 (Seminar in Geometry) Summer 2020

Math 151 (Engineering Mathematics I), Fall 2019, Spring 2019, Fall 2015
Math 152 (Engineering Mathematics II), Spring 2020, Spring 2018, Spring 2016 (honors)

Grading

Math 666 (Seminar in Geometry) Summer 2020
Math 656 (Functional Analysis I), Fall 2017
Math 636 (Topology I) Fall 2018 & Fall 2016
Math 467 (Modern Geometry) Spring 2021, Fall 2020, Spring 2016
Math 409 (Advanced Calculus I) Fall 2014
Math 323 (Linear Algebra) Summer 2013

Help Sessions

Math 409 (Advanced Calculus I) Summer 2019 & Summer 2018
Math 323 (Linear Algebra) Spring 2014 & Fall 2013
Math 308 (Differential Equations) Summer 2016

Interdisciplinary Experience

2010 Institute of Theoretical Physics, University of Warsaw, Warsaw, Poland
Summer project on Loop Quantum Gravity with Jerzy Lewandowski.
2009 Ultrafast Phenomena Lab, University of Warsaw, Warsaw, Poland
Summer project on Fluorescence Microscopy with Czesław Radzewicz.

Skills

programming Python, C++, Pascal
software \LaTeX , Matlab, LabVIEW
languages Polish (native), English (fluent), German (basic)