

Mr. Jonathan M. Wilson

CONTACT INFORMATION

PhD Student
Department of Mathematical Sciences
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RESEARCH INTERESTS

Algebra, Geometry, Combinatorics and Topology: More specifically, I am interested in cluster algebras (from surfaces), generalised versions of cluster algebras, combinatorial theory of polytopes.

EDUCATION

Durham University, UK

Ph.D., Pure Mathematics, October 2013–present

- Adviser: [Dr Anna Felikson](#)
- Area of Study: Cluster Algebras

University of Cambridge, UK

MASt, Part III, October 2012–2013

- Area of Study: Pure Mathematics

Swansea University, UK

BSc., Mathematics, October 2009–2012

PREPRINTS

- [1] *Shellability and sphericity of the quasi-arc complex of the Möbius strip*. [arXiv:1510.05419](#), submitted.
- [2] *Laurent phenomenon algebras arising from surfaces*. [arXiv:1608.04794](#), submitted.

TALKS AT INTERNATIONAL CONFERENCES

- Nonorientable Surfaces and their cluster structure. In: *University Notre Dame: Quivers and Bipartite Graphs: Physics and Mathematics*, May 2–6, 2016.
- The cluster structure of non-orientable surfaces. In: *Münster: Cluster Algebras and Geometry*, March 10–12, 2016.
- Wilson, J. Quasi-cluster algebras and the structure of the finite type exchange graphs. In: *KIAS; Korea: Young Mathematicians Workshop on Cluster Algebras*, December 12, 2014.
- Wilson, J. Quasi-cluster algebras from non-orientable surfaces. In: *Cardiff University: LMS Workshop on Cluster Algebras and Preprojective Algebras*, October 17–18, 2014.

SEMINAR TALKS

- Triangulated non-orientable surfaces and their flip structure. In: *University of Manchester Geometry Seminar*, March 3, 2016.
- The structure of arc complexes. In: *Durham University Gandalf Seminar*, October 13, 2015.

TEACHING
EXPERIENCE

Durham University, UK

Tutor for Algebra II.

October 2015 - May 2016

- 2nd year undergraduate course in *Groups, Rings and Fields*. Tutor for 3 groups of approx. 15 students.

Tutor for Algebra II.

October 2014 - May 2015

- 2nd year undergraduate course in *Groups, Rings and Fields*. Tutor for 2 groups of approx. 15 students.

OTHER MEETING
ATTENDANCE

General Participant

- Total Positivity: A bridge between Representation Theory and Physics, *Canterbury, UK*, January 7 – 12, 2016.
- Journées de Géométrie Hyperbolique, *Fribourg, Switzerland*, October 15 – 16, 2015.
- GEAR Junior Retreat, *Ann Arbor, Michigan*, May 23 – June 1, 2014.
- IRMA Master Class : Around Thurston-Grothendieck-Teichmüller theories, *Strasbourg, France*, February 9–17, 2014.
- 3rd Young Geometric Group Theory Meeting, *Luminy, France*, January 20–24, 2014.

AWARDS

Durham University

- EPSRC Doctoral Scholarship, 2013–2017

Swansea University

- Institute of Mathematics Prize, 2011–2012
- Senior Foulkes Prize in Mathematics, 2011–2012
- Lynne Charles Prize in Mathematics, 2010–2011
- Junior Foulkes Prize in Mathematics, 2009–2010