

## Dr. Jonathan M. Wilson

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### CONTACT INFORMATION

Department of Mathematics  
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### RESEARCH INTERESTS

Cluster algebras and their generalisations, cluster structures from surfaces, categorification of cluster algebras, combinatorial theory of polytopes, hyperbolic geometry.

### EMPLOYMENT

**Instituto de Matemáticas, Universidad Nacional Autónoma de México (UNAM)**, Mexico

Postdoctoral Researcher, October 2018–present

- Postdoctoral mentors: Prof. Christof Geiss and Dr. Daniel Labardini-Fragoso

**Eberhard-Karls-Universität Tübingen**, Germany

Postdoctoral Researcher, October 2017– October 2018

- Postdoctoral mentor: Prof. Christoph Bohle

### EDUCATION

**Durham University**, UK

Ph.D., Pure Mathematics, October 2013–May 2017

- 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] *Laurent phenomenon algebras arising from surfaces II – laminated surfaces*. [arXiv:1802.06962](https://arxiv.org/abs/1802.06962), 2018, submitted to Selecta Mathematica.

### PUBLICATIONS

- [2] *Shellability and sphericity of finite quasi-arc complexes*. [10.1007/s00454-017-9929-0](https://doi.org/10.1007/s00454-017-9929-0), Discrete and Computational Geometry, Volume 59, Issue 3, April 2018, pp 680–706.
- [3] *Laurent phenomenon algebras arising from surfaces*. [10.1093/imrn/rnw341](https://doi.org/10.1093/imrn/rnw341), International Mathematics Research Notices, Volume 2018, Issue 12, 13 June 2018, Pages 3800–3833.

### TALKS AT INTERNATIONAL CONFERENCES

- Cluster structures from laminated surfaces. In: *Luminy, France*, November 5–9, 2018.
- Cluster structures from laminated surfaces. In: *Michigan State University: Cluster Algebras and Math Physics*, May 7–12, 2018.
- 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

- Cluster structures from laminated surfaces. In: *Durham University Cluster Algebra Seminar*, May 4, 2017.
- A short course (6 talks) on Laurent Phenomenon algebras and their connection to surfaces. In: *Durham University Cluster Algebra Seminar*, January - March 2017.
- 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

##### **Eberhard-Karls-Universität Tübingen**, Germany

*Lecturer:* Course on Cluster Algebras for graduate students, 28 lectures. **October 2017 - present**

##### **Durham University**, UK

*Tutor* for Algebra II. **October 2015 - May 2017**

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

*Tutor* for Algebra II. **October 2014 - May 2015**

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

#### OTHER MEETING ATTENDANCE

##### **General Participant**

- New Trends in Representation Theory: The Impact of Cluster Theory in Representation Theory, *Leicester, UK*, June 19 – 23, 2017.
- Joint Notre Dame - La Sapienza workshop on lie theory and cluster algebras, *Rome, Italy*, October 17–21, 2016.
- 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.
- 3<sup>rd</sup> Young Geometric Group Theory Meeting, *Luminy, France*, January 20–24, 2014.

#### AWARDS

##### **Eberhard-Karls-Universität Tübingen**

- Teach@Tübingen Award, 2017–2018

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