

# Curriculum Vitæ

Liron Speyer

<http://www.people.virginia.edu/~ls2zz>

[l.speyer@virginia.edu](mailto:l.speyer@virginia.edu)

Room 324 Kerchof Hall

Department of Mathematics

University of Virginia

Charlottesville, VA 22904

USA

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## Education

- 2011–2015 PhD, Mathematics, Queen Mary University of London, supervisor [Dr Matthew Feyers](#). Thesis: [Representation theory of Khovanov–Lauda–Rouquier algebras](#).  
2007–2011 MMath, Mathematics, The University of Warwick. First class honours.

## Positions held

- 2017– Whyburn Instructorship, University of Virginia.  
2015–2017 [JSPS Postdoctoral Fellowship](#), Osaka University. Working with [Professor Susumu Ariki](#).  
2015 Visiting postdoc, University of East Anglia. Working with [Dr Sinéad Lyle](#). Supported by [150th Anniversary Postdoctoral Mobility Grant](#), LMS.

## Grants and awards

- 2017 [Humboldt Research Fellowship for Postdoctoral Researchers](#), Alexander von Humboldt Foundation (declined in favour of a longer position at The University of Virginia).  
2015 [Research in Pairs – Scheme 4](#), LMS (Co-Investigator).  
2014 [150th Anniversary Postdoctoral Mobility Grant](#), LMS.  
2012 [Eileen Colyer Prize](#), Queen Mary University of London.

## Research interests

Representation theory of symmetric groups, Ariki–Koike algebras and Khovanov–Lauda–Rouquier algebras.

## Publications (See my [arXiv page](#))

### Preprints (submitted)

8. Specht modules for quiver Hecke algebras of type  $C$ , with [Susumu Ariki](#) and [Euiyong Park](#), [arXiv:1703.06425](#).
7. An analogue of row removal for diagrammatic Cherednik algebras, with [Chris Bowman](#), [arXiv:1601.05543](#).

### Published papers

- accepted 6. On bases of some simple modules of symmetric groups and Hecke algebras, with [Melanie de Boeck](#), [Anton Evseev](#) and [Sinéad Lyle](#), *Transform. Groups*, to appear, [arXiv:1606.06939](#), DOI.
- 2018 5. On the semisimplicity of the cyclotomic quiver Hecke algebra of type  $C$ , *Proc. Amer. Math. Soc.* **146** (2018), no. 5, 1845–1857, [arXiv:1704.07655](#), DOI.

4. Kleshchev's decomposition numbers for diagrammatic Cherednik algebras, *with Chris Bowman*, Trans. Amer. Math. Soc. **370** (2018), no. 5, 3551–3590, [arXiv:1507.06631](#), [DOI](#).
- 2017 3. A family of graded decomposition numbers for diagrammatic Cherednik algebras, *with Chris Bowman* and *Anton Cox*, Int. Math. Res. Not. IMRN. **2017** (2017), no. 9, 2686–2734, [arXiv:1503.07088](#), [DOI](#).
- 2016 2. Generalised column removal for graded homomorphisms between Specht modules, *with Matthew Fayers*, J. Algebraic Combin. **44** (2016), no. 2, 393–432, [arXiv:1404.4415](#), [DOI](#).
- 2014 1. Decomposable Specht modules for the Iwahori–Hecke algebra  $\mathcal{H}_{\mathbb{F}, -1}(\mathfrak{S}_n)$ , J. Algebra **418** (2014), 227–264, [arXiv:1308.4296](#), [DOI](#).

## Invited talks

- 2017 Dec. [Representation Theory of Symmetric Groups and Related Algebras](#), Institute for Mathematical Sciences, National University of Singapore.
- 2017 May [Representation theory seminar](#), Kyoto University.
- 2016 Nov. [Mathematics Seminar](#), Korea Institute for Advanced Study, Seoul.
- 2016 Jun. [London Algebra Colloquium](#), City University London.
- 2016 May [NUS Representation theory seminar](#), National University of Singapore.
- 2015 Nov. [Symposium on representation theory 2015](#), Izunagaoka, Shizuoka prefecture.
- 2015 Aug. [Representation theory of Hecke algebras](#), City University London.
- 2015 Apr. [Algebra and Combinatorics seminar](#), Tulane University, New Orleans.
- 2015 Feb. [Birmingham algebra seminar](#), University of Birmingham.
- 2015 Feb. [Cambridge algebra seminar](#), University of Cambridge.
- 2015 Jan. [York algebra seminar](#), The University of York.
- 2014 Nov. [London Algebra Colloquium](#), Imperial College London.
- 2014 Nov. [Leeds algebra seminar](#), University of Leeds.

## Other talks

- 2017 Oct. [University of Virginia Algebra Seminar](#), University of Virginia.
- 2017 Jun. [Young Algebraists' Conference 2017](#), École Polytechnique Fédérale de Lausanne.
- 2017 May Short course (7 hours) on diagrammatic Cherednik algebras, Osaka University.
- 2016 Dec. [Symposium on representation theory 2016](#), Okinawa.
- 2016 Jun. Short course (10 hours) on Universal graded Specht modules, Osaka University.
- 2015 Nov. [Osaka Representation Theory Seminar](#), Osaka City University.
- 2015 Sep. [Pure Maths Research Seminar](#), University of East Anglia.
- 2014 Jul. [Representations of symmetric groups, Hecke algebras and KLR algebras](#), University of Birmingham.
- 2013 Feb. [Pure Mathematics Colloquium](#), Queen Mary University of London.

## Teaching and outreach

- 2018 Spring Semester – teaching Survey of Algebra (Math 3354), University of Virginia.
- 2017 Fall Semester – teaching Elementary Linear Algebra (Math 3351), University of Virginia.
- 2011–2015 Teaching assistant for a broad range of algebra and geometry modules, Queen Mary University of London.
- 2013 Representing Queen Mary's pure mathematics research group at “Research in the UK” event for Part III students, University of Cambridge.
- 2010–2011 Taught all core first year modules to small supervision groups, The University of Warwick.

## **Journals refereed for**

- Journal of Algebra.
- Journal of Pure and Applied Algebra.
- Science China Mathematics.

## **Reviewed for**

- Zentralblatt MATH,
- MathSciNet Mathematical Reviews.

## **Academic Society Membership**

- London Mathematical Society.