

Curriculum Vitæ

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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

- 2018 [Research in Pairs – Scheme 4](#), LMS (Co-Investigator).
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)

In preparation

9. Decomposable Specht modules indexed by bihooks, *with* [Louise Sutton](#),

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 $\mathcal{H}_{\mathbb{R}, -1}(\mathfrak{S}_n)$, J. Algebra **418** (2014), 227–264, [arXiv:1308.4296](#), [DOI](#).

Invited talks

- 2018 Mar. [Algebra seminar](#), University of Waterloo.
- 2018 Mar. [Mathematical physics seminar](#), Perimeter Institute, Waterloo.
- 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.