

Adele Jackson

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EDUCATION

2019-2024 (expected)	DPhil in Mathematics , University of Oxford, UK. Thesis: <i>Seifert fibered spaces: triangulation and recognition</i> Supervisor: Professor Marc Lackenby
2015-2018	B. Philosophy (1 st class honours), Australian National University, Australia. Thesis: <i>Presentations of the mapping class group</i> Supervisor: Dr. Joan Licata

PREPRINTS AND PAPERS

- **Recognition of Seifert fibered spaces with boundary is in NP**, 2023.
arXiv:2306.04612, 38 pages.
- **Minimal triangulation size of Seifert fibered spaces with boundary**, 2023.
arXiv:2301.02085, 24 pages.
- **Arc diagrams on 3-manifold spines**, 2023. *with J. Brand, B. Burton, Z. Dancso, A. He and J. Licata.* Discrete and Computational Geometry. DOI: 10.1007/s00454-023-00539-4.

AWARDS AND SCHOLARSHIPS

2019-present	Clarendon Scholarship and Oxford-Australia Lincoln College Scholarship, University of Oxford
2015-2018	National Merit Scholarship, Australian National University
2018	ChooseMaths Scholarship to attend AMSI Summer School in Mathematics
2017	Vacation Research Scholarship, AMSI
2016	Half-Academic Scholarship, Bruce Hall, Australian National University

TEACHING AND WORK EXPERIENCE

	University of Oxford
2020-23	Non-stipendiary lecturer, first year mathematics, St Catherine's College
Mich'mas 2022	Tutor for Topology and Groups
Mich'mas 2021	Teaching assistant for Geometry of Surfaces
Hilary 2020	Teaching assistant for Geometric Group Theory
	CSIRO, Australia
01/2019-06/2019	Research assistant, Machine Learning Research Group
	Australian National University
Semester 2 2018	Tutor for COMP1730: Programming for Scientists
Semester 1 2018	Tutor for COMP4670: Introduction to Statistical Machine Learning
Semester 1 2017	Tutor for COMP4670: Introduction to Statistical Machine Learning
	Australian Informatics Olympiad Program
2014, 2015, 2018	Residential tutor at Australian Informatics Olympiad Committee School of Excellence

CONFERENCE TALKS

April 2023	Computational problems in low-dimensional topology III, Rutgers-Newark
January 2023	Low-dimensional topology workshop, Oberwolfach
July 2021	Young Topologists Meeting (online)

SEMINAR TALKS

October 2023	University of Oxford, Topology seminar
October 2023	Groups and Geometry in the South East, London
June 2023	International Young Seminar on Bounded Cohomology and Simplicial Volume (online)
March 2023	University of Bristol, Geometry and Topology seminar
March 2023	University of Warwick, Junior Algebraic Geometry, Algebraic Topology and Algebra seminar
February 2023	Université du Luxembourg, Geometry and Topology seminar
December 2022	University of Bristol, Junior Geometry seminar
March 2022	University of Cambridge, Junior Geometry seminar
September 2021	University of Queensland, Pure Maths seminar
March 2021	MATRIX/AMSI, Graduate Talks in Geometry and Topology (online)
February 2021	Australian National University, Canberra 3-manifolds seminar

SERVICE AND OUTREACH

July 2023	Tutor for UNIQ outreach program, Oxford
2020-23	Student representative on Graduate Studies Committee, Mathematical Institute, University of Oxford
November 2022	Panelist for PhD Your Way event, online
July 2022	Tutor for UNIQ outreach program, Oxford
2022	MESME mentor, running a weekly maths enrichment group for 13-year-olds
2021-22	Organiser, Junior Topology and Group Theory seminar, University of Oxford
Nov 2020-	Organiser, Canberra 3-manifolds seminar
March 2021	

CONFERENCES ATTENDED

September 2023	<i>Swiss knots</i> , Regensburg, Germany
July 2023	<i>Gauge theory and topology</i> , Oxford
July 2023	<i>Group actions and low-dimensional topology</i> , El Barco de Ávila, Spain
June 2023	<i>Groups around 3-manifolds</i> , Université de Montréal
April 2023	<i>Computational problems in low-dimensional topology III</i> , Rutgers-Newark
February 2023	<i>Young geometric group theory XI</i> , Münster, Germany
January 2023	<i>Low-dimensional topology</i> , MFO, Oberwolfach, Germany
July 2022	<i>Metric geometry and geometric analysis graduate summer school</i> , Oxford
May 2022	<i>Graduate school on geometric group theory and low-dimensional topology</i> , ICMAT, Madrid
April 2022	<i>Structures on surfaces</i> , CIRM, Luminy, France
September 2021	<i>Invariants and structures in low-dimensional topology</i> , MATRIX/MFO (online)
July 2021	<i>Young topologists meeting</i> (online)
June 2021	<i>Nearly carbon neutral geometric topology</i> (online)
January 2020	<i>Interactions between geometry, dynamics and group theory</i> , University of Bristol
November 2019	<i>London Mathematical Society annual general meeting</i> , London
December 2016	<i>AustMS</i> , Australian National University