Curriculum Vitae

A/Prof James Parkinson

School of Mathematics and Statistics Carslaw building, F07 University of Sydney, NSW, 2006 Australia jamesp@maths.usyd.edu.au
http://www.maths.usyd.edu.au/u/jamesp/

Employment history

- Associate Professor: University of Sydney, Australia	2020-present
- Senior Lecturer: University of Sydney, Australia	2014-2019
- Lecturer: University of Sydney, Australia	2009-2013
- Postdoctoral Fellow: Technische Universität Graz, Austria	2008
- Visiting Assistant Professor: Cornell University, New York, U.S.A.	2007
- Postdoctoral Fellow: University of Wisconsin, Madison, U.S.A.	2006

Education

- Ph.D. Pure Mathematics (University of Sydney, Australia)	2002 – 2005
Title: Buildings and Hecke Algebras	
Supervisor: Dr. Donald Cartwright	
Award: T.G. Room medal (outstanding thesis in pure mathematics)	
Scholarship: Australian Postgraduate Award	

- B.Sc.(Adv) Pure Mathematics (University of Sydney, Australia) 1998–2001

Thesis title: Regularised Products and Zeta Functions

Supervisor: Dr. Adrian Nelson

Grade: Honours class I

Teaching qualifications

- Graduate Certificate in Higher Education University of Sydney, graduated with Merit	2010
 Principals & Practice of University Teaching University of Sydney 	2009
 Development Program for Research Supervision University of Sydney 	2009

Short term visiting positions

- CRM-Simons Scholar: Centre de Recherches Mathématiques, Montréal Canad	la June 2024
- Visiting Professor: Universite Francois Rebelais de Tours, France	Nov 2017
- Research in Pairs: CIRM, Aix-Marseille University, France	Oct 2017
– Visiting Professor: Technische Universität Graz, Austria	July–Aug 2017
- Research in Pairs: CIRM, Aix-Marseille University, France	June 2014
– Visiting Professor: Technische Universität Graz, Austria	Sept-Oct 2013
- Visiting Professor: University of Gent, Belgium	July–Aug 2013
– Visiting Professor: Technische Universität Graz, Austria	Oct 2010
- Visiting Scholar: Département de Mathématiques d'Orsay, France	Oct 2008
V::::::	OC I O-+ 2007 M 2009

Research grants and funding

 New Directions in Hecke Algebras (ARC discovery DP200100712) \$453,000 James Parkinson (Chief Investigator) Jérémie Guilhot (Partner Investigator) Bernhard Mühlherr (Partner Investigator) 	2021–2025
 The Geometry of Loop Groups (ARC discovery DP110103205) \$143,200 James Parkinson (Chief Investigator) Joel Kamnitzer (Partner Investigator) 	2011–2015
 MATRIX conference funding \$17,000 (with A. Devillers, J. Schillerwaert, A. Thomas) 	2020
 Near-Miss grant \$50,000 University of Western Australia (with Alice Devillers, Hendrik Van Maldeghem, Bernhard Mühlherr) 	2016–2017
- Seed Funding \$11,000 University of Sydney	2016–2017
- Start-up Grant \$12,000 University of Sydney	2009–2010
ditorial roles	
 Editor in Chief Innovations in Incidence Geometry. 	2021-present
- Editor Innovations in Incidence Geometry.	2017–2020
 Editor Bulletin of the Australian Mathematical Society. 	2017–present
onference organisation	
 Special session organiser Groups and Geometries, Joint meeting of the NZMS, AustMS, and AMS, Auckland, New Zealand, (co-organisers: KU. Bux, J. Schillerwaert, A. Thomas). 	2024
 Conference organiser Groups and Geometries, MATRIX, Australia (co-organisers: A. Devillers, J. Schillerwaert, A. Thomas). 	2020
 Special session organiser AustMS annual conference, Algebra 	2017
 Conference organiser Workshop on Buildings and Symmetry University of Western Australia, Perth Co-organisers: A. Devillers, B. Mühllherr, H. Van Maldeghem. 	2017
 Special session organiser PRIMA2013 conference, Shanghai, Representation Theory and Categorification 	2013
- Member of Scientific Committee AustMS annual conference	2011
 Special session organiser AustMS annual conference, Algebra and Number Theory 	2011

Publications and preprints

Authorship is listed in alphabetical order.

- Automorphisms of Lie incidence geometries with spectral gaps

(Y. Neyt, J. Parkinson, H. Van Maldeghem) Submitted, 26 pages (2025)

- Bounded weight functions on regular languages and groups

(J. Guilhot, E. Little, J. Parkinson) Submitted, 19 pages (2025)

– Automorphisms and opposition in spherical buildings of exceptional type, V: The E_8 case

(J. Parkinson, H. Van Maldeghem)

Submitted, 47 pages (2025)

- The asymptotic Plancherel formula and Lusztig's asymptotic algebra for \tilde{A}_n

(N. Chapelier-Laget, J. Guilhot, E. Little, J. Parkinson) Submitted, 57 pages (2024)

- Automorphisms and opposition in spherical buildings of exceptional type, IV: The E₇ case

(Y. Neyt, J. Parkinson, H. Van Maldeghem, M. Victoor)

Submitted, 68 pages, (2024)

Uniclass automorphisms of spherical buildings

(Y. Neyt, J. Parkinson, H. Van Maldeghem)

Geometriae Dedicata, 219, Article Number 34, 54 pages, (2025)

- Automorphisms and opposition in spherical buildings of classical type

(J. Parkinson, H. Van Maldeghem)

Advances in Geometry, 24, 287–321, (2024)

On J-folded alcove paths and combinatorial representations of affine Hecke algebras

(J. Guilhot, E. Little, J. Parkinson)

Algebras and Representation Theory, 27, 2131–2185, (2024)

- Automorphisms and opposition in spherical buildings of exceptional type, II: Moufang Hexagons

(J. Parkinson, H. Van Maldeghem)

Innovations in Incidence Geometry, 20, 443–470, (2023)

- Cone types, automata, and regular partitions in Coxeter groups

(J. Parkinson, Y. Yau)

Advances in Mathematics, 398, 1–66, (2022)

- Automorphisms and opposition in spherical buildings of exceptional type, I

(J. Parkinson, H. Van Maldeghem)

Canadian Journal of Mathematics, 74, 1517–1578 (2022)

- Patterns in sets of positive density in trees and affine buildings

(M. Björklund, A. Fish, J. Parkinson)

Groups, Geometry and Dynamics, 15, 1267–1295 (2021)

- Coxeter systems for which the Brink-Howlett automaton is minimal

(J. Parkinson, Y. Yau)

Journal of Algebra, **527**, 437–446 (2019)

- Opposition diagrams for automorphisms of small spherical buildings

(J. Parkinson, H. Van Maldeghem)

Innovations in Incidence Geometry, 17, 141–188 (2019)

– Balanced representations, the asymptotic Plancherel formula, and Lusztig's conjectures for C_2

(J. Guilhot, J. Parkinson)

Algebraic Combinatorics, 2, 969–1031 (2019)

- Opposition diagrams for automorphisms of large spherical buildings

(J. Parkinson, H. Van Maldeghem)

Journal of Combinatorial Theory, Series A, 162, 118–166 (2019)

A proof of Lusztig's conjectures for affine type G₂ with arbitrary parameters
 (J. Guilhot, J. Parkinson)

Proceedings of the London Mathematical Society, 118, 1188–1244 (2019)

- Scale and tidy subgroups for Weyl-transitive automorphism groups of buildings

(U. Baumgartner, J. Parkinson, J. Ramagge)

Journal of Algebra, **520**, 460–478 (2019)

Limit Theorems for random walks on Fuchsian buildings and Kac-Moody groups
 (L. Gilch, S. Müller, J. Parkinson)

Groups, Geometry and Dynamics, 12, 1069–1121 (2018)

- Buildings, groups of Lie type, and random walks

(J. Parkinson)

Groups, Graphs and Random Walks, London Math. Soc. Lec. Notes, 436, 391–443, (2017)

- Distance regularity in buildings and structure constants in Hecke algebras

(P. Abramenko, J. Parkinson, H. Van Maldeghem)

Journal of Algebra, 481, 158–187 (2017)

Asymptotic entropy of random walks on Fuchsian buildings and Kac-Moody groups
 (L. Gilch, S. Müller, J. Parkinson)

Mathematische Zeitschrift, 285, 707-738 (2017)

- Regular sequences and random walks in affine buildings

(J. Parkinson, W. Woess)

Annales de l'Institut Fourier, **65**, 675–707 (2015)

- The combinatorics of automorphisms and opposition in generalised polygons

(J. Parkinson, B. Temmermans, H. Van Maldeghem)

Annals of Combinatorics 19, 567–619 (2015)

– On calibrated representations and the Plancherel Theorem for affine Hecke algebras

(J. Parkinson)

Journal of Algebraic Combinatorics, 40, 331–371, (2014)

- Automorphisms and opposition in twin buildings

(A. Devillers, J. Parkinson, H. Van Maldeghem)

Journal of the Australian Mathematical Society, 94, 189–201 (2013)

- A classification of commutative parabolic Hecke algebras

(P. Abramenko, J. Parkinson, H. Van Maldeghem)

Journal of Algebra, **385**, 115–133 (2013)

- A local limit theorem for random walks on the chambers of \tilde{A}_2 buildings

(J. Parkinson, B. Schapira)

Progress in Probability, 64, Birkhäuser, 15–53 (2011)

- Combinatorics in affine flag varieties

(J. Parkinson, A. Ram, C. Schwer)

Journal of Algebra, 321, 3469–3493, (2009)

- Isotropic random walks on affine buildings

(J. Parkinson)

Annales de l'institut Fourier, **57**, 379–419 (2007)

- Spherical harmonic analysis on affine buildings

(J. Parkinson)

Mathematische Zeitschrift, 253, 571–606 (2006)

- Buildings and Hecke algebras

(J. Parkinson)

Journal of Algebra, 297, 1–49 (2006)

$\underline{\mathbf{Editor}}$

Innovations in Incidence Geometry: Algebraic, Topological and Combinatorial, 20, No 2–3, 2023
 Special issue in honour of Jacques Tits
 Editors: A. Betten, D. Leemans, B. Mühlherr, J. Parkinson, K. Thas, H. Van Maldeghem.

Conference, seminar, and colloquium talks

 Recognising cells and Lusztig's asymptotic algebra Algebra in Akaroa, Akaroa, New Zealand 	Jan. 2026
 Displacement spectra for automorphisms of spherical buildings Buildings workshop, UCLouvain, Belgium (invited speaker) 	Sep. 2025
 Lusztig's asymptotic algebra for affine type A Algebraic Combinatorics Conference, Le Croisic, France (invited speaker) 	June 2025
 On Lusztig's asymptotic algebra Quebec Mathematical Sciences Colloquium, Montreal, Canada (invited speaker) 	June 2024
 Opposition diagrams Polygons, Buildings, and related Geometries, Gent, Belgium (invited speaker) 	Sep. 2022
 Cone types, automata, and regular partitions in Coxeter groups Algebraic Combinatorics of the Symmetric Groups and Coxeter Groups II, Cetraro, Italy 	Jul. 2022
 Cone types, automata, and regular partitions in Coxeter groups Algebra Seminar, University of Sydney, Australia 	May 2022
 Automorphisms and opposition in spherical buildings Symmetry in Newcastle seminar, University of Newcastle, Australia 	Mar. 2022
 Automata for Coxeter groups Symmetry in Newcastle seminar, University of Newcastle, Australia 	Aug. 2021
 Patterns in sets of positive density in trees and affine buildings Mathematics C Seminar, University of Graz, Austria 	Dec. 2020
 Patterns in sets of positive density in trees and affine buildings Buildings workshop, Magdeburg, Germany 	Oct. 2019
 Path models in Kazhdan-Lusztig theory Flags, Galleries and Reflection Groups (invited speaker), University of Sydney, Australia 	Aug. 2019
 Hecke algebras with unequal parameters II: Plancherel Theorems IFS Seminar, University of Sydney, Australia 	Mar. 2019
 Hecke algebras with unequal parameters I: Cells and the a-function IFS Seminar, University of Sydney, Australia 	Mar. 2019
 Automorphisms and opposition in spherical buildings Geometry, Topology and Analysis seminar, University of Sydney, Australia 	May 2018
 On Lusztig's conjectures P1-P15 Algebra seminar, University of Sydney, Australia 	May 2018
 Affine Hecke algebras, buildings, and random walks Invited minicourse (3 hours), Auckland, New Zealand 	Jan. 2018
 Random walks on buildings Colloquium, Laboratoire de Mathématiques et Physique Thérique, Tours, France 	Nov. 2017
- Large deviation principles and the Martin compactification Mathematics C Seminar, University of Graz, Austria	Aug. 2017
- A multiplicative ergodic theorem for p-adic Lie groups Ergodic Theory and its Applications, Conference, Sydney	July 2016

-	Affine Hecke algebras, buildings, and probability theory Invited minicourse (5 hours), Tours, France	June 2016
-	A multiplicative ergodic theorem for p-adic Lie groups and buildings MADACA: Random Walks and Dunkl Processes (invited speaker), Sologne, France	June 2016
_	On automorphisms and opposition in spherical buildings Seminar, University of Western Australia	Nov. 2015
_	Domesticity in spherical buildings Buildings workshop, Münster, Germany	Sept. 2015
_	A multiplicative ergodic theorem for p -adic Lie groups Seminar, Gent University, Belgium	Nov. 2014
-	A multiplicative ergodic theorem for <i>p</i> -adic Lie groups University of Sydney Geometry, Topology and Analysis Seminar, Australia.	Sept. 2014
_	Random walks on buildings Groups, Graphs, and Random Walks (invited speaker), Cortona, Italy	June 2014
_	Automorphisms of generalised polygons University of Sydney Algebra Seminar, Australia.	Mar. 2014
_	Generalised polygons University of Wollongong Colloquium, Australia.	Nov. 2013
-	Automorphisms and opposition in generalised polygons Buildings workshop, Münster, Germany	Oct. 2013
_	Generalised polygons: An introduction Doctoral program, Technische Universität Graz, Austria.	Oct. 2013
_	Automorphisms of generalised polygons Algebra seminar, University of Glasgow, Scotland.	Sept. 2013
_	A Multiplicative Ergodic Theorem for p-adic Lie groups Analysis seminar, University of Ottawa, Canada.	Jul. 2012
_	Harmonic analysis for Coxeter groups and Hecke algebras Operator algebras seminar, University of Wollongong, Australia	May 2012
_	Plancherel Theorems for Hecke algebras and Coxeter groups AMSI workshop on Symmetry, Wollongong, Australia	Feb. 2012
_	On automorphisms and opposition in twin buildings Incidence geometry and buildings, University of Ghent, Belgium	Feb. 2012
_	On Plancherel Theorems Group theory seminar, University of Milano (Bicocca), Italy	Feb. 2012
_	Regular sequences in affine buildings Mathematics C Seminar, University of Graz, Austria	Feb. 2012
_	Plancherel Theorems for Hecke algebras and Coxeter groups Computational approaches to Coxeter groups and Kac-Moody algebras, USyd, Australia	Nov. 2011
_	A classification of commutative parabolic Hecke algebras AustMS annual conference, University of Wollongong, Australia	Sept. 2011
_	The Gindikin-Karpelevich formula Infinite groups seminar, University of Sydney, Australia	Aug. 2011
_	Plancherel Theorems and Gindikin-Karpelevich formulas Seminar, University of Toronto, Canada	July 2011
-	Classifying commutative parabolic Hecke algebras Algebra Seminar, University of Sydney, Australia	Apr. 2011

_	Commutativity of parabolic Hecke algebras Seminar, Gent University, Belgium	Feb. 2011
_	Semi-isotropic random walks on affine buildings Seminar, Centre de Mathématiques et Informatique, Marseille, France	Nov. 2010
_	Regular sequences in affine buildings Workshop on buildings, Universität Münster, Germany	Oct. 2010
_	Random walks on homogeneous trees Applied Mathematics Seminar, University of Sydney, Australia	Apr. 2010
-	Representations of Affine Hecke Algebras Algebra Seminar, University of Sydney, Australia	Mar. 2010
-	Random walks on affine buildings Workshop on buildings, Universität Münster, Germany	Oct. 2009
_	Random walks on p-adic groups and affine buildings AustMS annual conference, University of South Australia	Sept. 2009
_	Random walks on p-adic groups and buildings Workshop on boundaries (invited speaker), Technische Universität Graz, Austria	July 2009
_	Random walks on buildings and reps of Hecke algebras Algebra seminar, University of Sydney, Australia	June 2009
_	Harmonic analysis on <i>p</i> -adic Lie groups Colloquium, MAPMO, Orléans, France	Oct. 2008
_	Combinatorics and harmonic analysis on <i>p</i> -adic Lie groups Colloquium, Département de Mathématiques d'Orsay, France	Oct. 2008
_	Horocyclic products of buildings and Borel subgroups Buildings 2008 workshop, Münster, Germany	Sept. 2008
_	Horocyclic products of affine buildings Groups and infinite graphs, Erwin Schrödinger International Institute, Vienna, Austria	Aug. 2008
-	Alcove walks and harmonic analysis Harmonic analysis and group actions in analysis, geometry, and probability, Zakopane, Poland	Apr. 2008
-	Alcove walks in Lie theory Colloquium, University of Sydney, Australia	Mar. 2008
-	Constructing positively folded alcove walks Seminar, Technische Universität Graz, Austria	Mar. 2008
_	An introduction to buildings II: Examples Seminar, Technische Universität Graz, Austria	Nov. 200'
_	An introduction to buildings I: Basic theory Seminar, Technische Universität Graz, Austria	Nov. 200'
_	Path combinatorics and retractions in the affine flag variety Pure mathematics seminar, University of Wollongong, Australia	Sept. 200'
_	Path combinatorics in loop groups Algebra seminar, University of Sydney, Australia	Aug. 2007
-	Kac-Moody groups and Hecke algebras Lie theory seminar, Cornell University, USA.	Apr. 2007
_	Basics of buildings Buildings and combinatorial representation theory, American Institute Math., Palo Alto, USA.	Apr. 200
-	The affine Grassmannian and alcove walks Topology and geometric group theory seminar, Cornell University, USA.	Mar. 200'

 A path model for Chevalley groups AMS special session, Combinatorial representation theory, Arkansas, Fayetteville 		Nov. 2006
 Alcove walks Representation theory and applications workshop, Oberwolfach, Germany 		Nov. 2006
 Iwahori cosets and alcove walks Research seminar, Universität zu Köln, Germany 		Nov. 2006
 Iwahori cosets and alcove walks Combinatorics Seminar, University of Wisconsin, Madison, USA. 		Oct. 2006
 Buildings, Hecke algebras, and spherical functions Lie Theory Seminar, University of Wisconsin, Madison, USA. 		Sep. 2006
 Isotropic random walks on trees and buildings Workshop on Discrete Probability, Erwin Schrödinger Institute, Vienna, Austria 		Mar. 2006
 Random walks on affine buildings Seminar, Technische Universität Graz, Austria 		Mar. 2006
 Buildings and Hecke algebras Algebra Seminar, University of Sydney, Australia 		Sep. 2005
 Spherical harmonic analysis on affine buildings Australian Mathematical Society annual conference, University of Western Australian 	tralia	Oct. 2005
- Random walks on trees and grids Σ UMS talk, University of Sydney, Australia		May 2005
 Averaging operators on buildings AustMS annual conference, Royal Melbourne Institute of Technology, Australia 		Oct. 2004
·	5, 2016, 2017, 2018,	2019, 2020
	5, 2016, 2017, 2018, 2011, 2012, 2013, 2011, 2012, 2013, 2013, 2013	,
 Rings fields and Galois Theory Third year Advanced, USyd Functional Analysis 		,
 Rings fields and Galois Theory		2022, 2023
 Rings fields and Galois Theory		2022, 2023
 Rings fields and Galois Theory		2022, 2023 2010 2009 2011
 Rings fields and Galois Theory	2011, 2012, 2013,	2022, 2023 2010 2009 2011 2012, 2021
- Rings fields and Galois Theory Third year Advanced, USyd - Functional Analysis Fourth year honours, USyd - Representation Theory and Random Walks Postgraduate course, Graz, Austria - Groups with BN-pairs Fourth year honours course, AMSI summer school, Wollongong - Graph Theory Reading course, USyd - Advanced Integral Calculus First year undergraduate, USyd - Advanced Vector Calculus	2011, 2012, 2013, s 2009, 2010, 2011, s	2022, 2023 2010 2009 2011 2012, 2021
- Rings fields and Galois Theory Third year Advanced, USyd - Functional Analysis Fourth year honours, USyd - Representation Theory and Random Walks Postgraduate course, Graz, Austria - Groups with BN-pairs Fourth year honours course, AMSI summer school, Wollongong - Graph Theory Reading course, USyd - Advanced Integral Calculus First year undergraduate, USyd - Advanced Vector Calculus Second year undergraduate, USyd - Vector Calculus	2011, 2012, 2013, s 2009, 2010, 2011, s	2022, 2023 2010 2009 2011 2012, 2021 2012, 2014
- Rings fields and Galois Theory Third year Advanced, USyd - Functional Analysis Fourth year honours, USyd - Representation Theory and Random Walks Postgraduate course, Graz, Austria - Groups with BN-pairs Fourth year honours course, AMSI summer school, Wollongong - Graph Theory Reading course, USyd - Advanced Integral Calculus First year undergraduate, USyd - Advanced Vector Calculus Second year undergraduate, USyd - Vector Calculus Second year undergraduate, USyd - Linear and abstract algebra (Advanced)	2011, 2012, 2013, s 2009, 2010, 2011, s	2022, 2023 2010 2009 2011 2012, 2021 2012, 2014 2022 2025

 Advanced Differential Calculus First year undergraduate, USyd 	2014, 2015, 2016
 Multivariable calculus Senior undergraduate, Cornell University, U.S.A. 	2007
 Integral calculus First year undergraduate, USyd 	2006
 Linear algebra I First year undergraduate, various levels, USyd 	2005, 2011, 2012, 2014, 2015, 2016, 2025
 Linear algebra II Second year undergraduate, Summer school, USyd 	2004, 2005
 Symmetries of Platonic solids Undergraduate talented student program, USyd 	2014, 2015, 2016
– Fermat's Last Theorem modulo p Undergraduate talented student program, USyd	2019, 2023
 Finite Simple Groups Reading course, USyd 	2016
Students and Postdoctoral Researchers Supervis	sed
- Postdoctoral Researchers:	
Nathan ChapelierYeeka YauTommaso Terragni	2023 2021–2022 2012
- Ph.D. Students:	
 Eloise Little (Supervisor: J. Parkinson, Associate Supervisor) Path models and Kazhdan-Lusztig theory Yeeka Yau (Supervisor: J. Parkinson, Associate Supervisor) Automatic structures for Coxeter groups Kamil Bulinski (Supervisor: A. Fish, Associate Supervisor) Ergodic theory and combinatorial number theory 	: O. Yacobi) 2017–2021
- Masters Students:	
 Chester Yau (Supervisor: N. Brownlowe, Associate Superv Skew-product graph of groups and their toolkits Phil Bos (Supervisor: J. Parkinson, Associate Supervisor: I On Ramanujan's τ-function, Modular Forms, and Hecke Operation) 	D. Cartwright) 2013–2017
- Honours Students:	
 Max Mikkelsen Kazhdan-Lusztig theory with arbitrary parameters 	2022–2023
- Eloise Little Coxeter groups and Kazhdan-Lusztig cells	2020–2021
- Thomas Arblaster	2019 (disc)
The inverse Galois problem - Lillie Scarlet	2019 (disc)
$Kazhdan ext{-}Lusztig\ cells$,
- Jacob Loader Random walks on groups	2019
– Yeeka Yau	2016
Automata for Coxeter groups - Zhenglyu Huang	2016
Projective geometry	2010

- Christopher Shaw	2014-2015
Automatic groups - David Manescu	2014
Parameters of generalised polygons	2014
– Jon Xu	2012
Generalised polygons	
- Audra McMillan	2011
Hecke algebras: Theory and applications - Matthias Wong	2010
Harmonic analysis on homogeneous trees	
- Vacation Scholars:	
- Oliver Chambers	2011
Representations and random walks	2010
- Yiming Deng Random walks on \mathbb{Z}^d and affine Coxeter groups	2010
- Other:	
- Christian Habighorst	2010
Diploma student (Münster, Germany): Brownian motion on affine buildings	2010
Ph.D. Juries	
- Johannes Roth, University of Gent	2021
- Magali Victoor, University of Gent	2024
- Yannick Neyt, University of Gent	2025
- Dan Rijpert, University of Gent	2025
Dan rajpore, emission of done	2020
Service - Strategic Promotion Advice and Mentoring program	2025
Service	2025
Service - Strategic Promotion Advice and Mentoring program	2025
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ	2025 nic levels)
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science	2025 nic levels) 2025
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science	2025 nic levels) 2025 2023
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member)	2025 nic levels) 2025 2023 2022
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member)	2025 nic levels) 2025 2023 2022 2021
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd)	2025 nic levels) 2025 2023 2022 2021 2021
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd) - LPC promotions committee, Business School (core external member)	2025 nic levels) 2025 2023 2022 2021 2021 2020
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd) - LPC promotions committee, Business School (core external member) - Faculty Assessments, Quality, and Standards Working Group (USyd)	2025 nic levels) 2025 2023 2022 2021 2021 2020 2019, 2020
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd) - LPC promotions committee, Business School (core external member) - Faculty Assessments, Quality, and Standards Working Group (USyd) - International Visitor Program (Selection committee member)	2025 nic levels) 2025 2023 2022 2021 2021 2020 2019, 2020 2017, 2018
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd) - LPC promotions committee, Business School (core external member) - Faculty Assessments, Quality, and Standards Working Group (USyd) - International Visitor Program (Selection committee member) - Education committee (USyd Mathematics)	2025 nic levels) 2025 2023 2022 2021 2021 2020 2019, 2020 2017, 2018 2021
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd) - LPC promotions committee, Business School (core external member) - Faculty Assessments, Quality, and Standards Working Group (USyd) - International Visitor Program (Selection committee member) - Education committee (USyd Mathematics) - Academic program committee (USyd Mathematics)	2025 nic levels) 2025 2023 2022 2021 2021 2020 2019, 2020 2017, 2018 2021 2021 2021 2014, 2015, 2016, 2017
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd) - LPC promotions committee, Business School (core external member) - Faculty Assessments, Quality, and Standards Working Group (USyd) - International Visitor Program (Selection committee member) - Education committee (USyd Mathematics) - Academic program committee (USyd Mathematics) - Undergraduate studies committee (USyd Mathematics)	2025 aic levels) 2025 2023 2022 2021 2021 2020 2019, 2020 2017, 2018 2021 2014, 2015, 2016, 2017 2014, 2015, 2016, 2017
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd) - LPC promotions committee, Business School (core external member) - Faculty Assessments, Quality, and Standards Working Group (USyd) - International Visitor Program (Selection committee member) - Education committee (USyd Mathematics) - Academic program committee (USyd Mathematics) - Undergraduate studies committee (USyd Mathematics)	2025 aic levels) 2025 2023 2022 2021 2021 2020 2019, 2020 2017, 2018 2021 2014, 2015, 2016, 2017 2014, 2015, 2016, 2017 2018, 2019
Service - Strategic Promotion Advice and Mentoring program (A program in Science aimed at addressing the gender imbalance at senior academ - Academic Plan Lead - Disability, Faculty of Science - Honours Lead, Faculty of Science - LPC promotions committee, Business School (core external member) - LPC promotions committee, Business School (core external member) - Advanced Stream Working Group (USyd) - LPC promotions committee, Business School (core external member) - Faculty Assessments, Quality, and Standards Working Group (USyd) - International Visitor Program (Selection committee member) - Education committee (USyd Mathematics) - Academic program committee (USyd Mathematics) - Undergraduate studies committee (USyd Mathematics) - Management Committee (USyd Mathematics) - Academic board (USyd) - Student Support Scheme Committee	2025 nic levels) 2025 2023 2022 2021 2021 2020 2019, 2020 2017, 2018 2021 2014, 2015, 2016, 2017 2014, 2015, 2016, 2017 2018, 2019 2019, 2020, 2021, 2022, 2023

- USyd Second year pure mathematics coordinator	2010-2013
 Seminar organiser Lie Theory, University of Wisconsin-Madison, U.S.A. 	2006
- Referee (various journals)	2007-
 Lecturer at MANSW talented student day Random walks: an introduction 	2010
- Mathematics coordinator for Science in The City	2009, 2010, 2011
- Mathematics coordinator for Sydney Open Day	2009, 2010, 2011