Oscar Randal-Williams

Department of Pure Mathematics and
Mathematical Statistics
Centre for Mathematical Sciences
Wilberforce Road
Cambridge CB3 0WB
UK

o.randal-williams@dpmms.cam.ac.uk
https://www.dpmms.cam.ac.uk/~or257/

EMPLOYMENT	University of Cambridge, (October 2013 –) Lecturer (2013 –), Reader (2017 –), Professor (2020 –), Sadleirian Professor (2024–)
	King's College, University of Cambridge, (October 2012 – September 2017) Research fellow (to September 2016), ordinary fellow (from September 2016).
	University of Cambridge, (October 2012 – October 2013) Herchel Smith postdoctoral research fellow.
	University of Copenhagen, (September 2010 – September 2012) Postdoctoral position and member of the Centre for Symmetry and Deformation.
	Mathematical Institute, University of Oxford, (January – August 2010) EPSRC PhD Plus postdoctoral position.
EDUCATION	DPhil Mathematics, University of Oxford, (2006 – 2009) Thesis title: *Stable moduli spaces of manifolds.* Supervisor: Professor U. Tillmann.
	MMath Mathematics, University of Oxford, (2002 – 2006)
GRANTS, HONOURS AND AWARDS	Co-PI, DNRF Grant *Copenhagen center for Geometry and Topology*, $\sim$ DKK 60 million.
	ERC Starting Grant, 756444 (HToMS), €974,526.
	EPSRC First Grant, EP/M027783/1, £90,898.
	Clay Research Award, 2022 (with S. Galatius).
	Invited speaker, International Congress of Mathematicians 2022.
	Oberwolfach prize, 2019.
	Dannie Heineman prize of the Akademie der Wissenschaften zu Göttingen, 2019.
	Philip Leverhulme prize, 2017.
	Whitehead prize of the London Mathematical Society, 2017.
	Oxford University Senior Mathematical Prize 2007.
SELECTED TALKS	Panorama of Mathematics II, Bonn 2023. Plenary.
	Deutsche Mathematiker-Vereinigung Jahrestagung, Berlin 2022. Plenary.
	The unity of mathematics: In honour of Sir Michael Atiyah, Cambridge 2021. Plenary.
	Clay research conference, Oxford, October 2019. Plenary.
	Séminaire Bourbaki, Paris 2019.
	Johnson homomorphisms and related topics, Tokyo 2019. Plenary.
	Geometry at infinity, Münster 2019. Plenary.
	Manifolds, Groups, and Homotopy – Skye 2018. Plenary.
	Bavarian Geometry and Topology Meeting – Augsburg 2017. Two talks.

Groups, Manifolds, and K-theory (Lück's 60th) – Münster 2017. Plenary.

Johnson homomorphisms and related topics – Tokyo 2017. Plenary.

Moduli and Traces (Madsen's retirement) – Copenhagen 2017. Plenary.

British Mathematical Colloquium – Durham 2017. Morning speaker.

Topology of manifolds (Weiss' 60th) – Lisbon 2016. Plenary.

Manifolds Unlocking Higher Structures – Oxford 2015. Plenary.

Symposium on Geometry and Topology of Manifolds – Vancouver 2015. Plenary.

Teichmüller Modular Groups (Ivanov's 60th) – Chicago 2015. Plenary.

ICM Satellite Conference on Algebraic Topology – Dalian, China 2014. Plenary.

Analysis and Topology in Interaction – Cortona, Italy 2014. Plenary.

Cohomology of the moduli space of curves – Zürich 2013. Plenary.

XIX Encuentro de Topología – La Coruña, Spain 2012. Plenary.

SERVICE

Journal of Topology. Editor, 2018–

Proceedings of the London Mathematical Society. Managing editor, 2018–2023

London Mathematical Society. Editorial advisor, 2013–2018

Conference (co)organiser: "Manifolds and K-Theory: the legacy of Andrew Ranicki", ICMS Edinburgh, 2020; "Manifolds and Groups", Oberwolfach, 2020; "Patterns in cohomology of moduli spaces", Clay Research Conference Workshop, Oxford, 2019; "Manifolds", Cambridge, 2018; "Analysis and Topology in Interaction", Cortona, 2017; OAC-manifolds meetings, 2016-2018; 25th British Topology Meeting, Oxford, 2010.

SELECTED PUBLICATIONS

A. Kupers and O. Randal-Williams, *On the Torelli Lie algebra.*
Forum of Mathematics, Pi, **11** (2023) E13.

J. Ebert and O. Randal-Williams, *The positive scalar curvature cobordism category.*
Duke Mathematical Journal, **171** (11) (2022), pp. 2275-2406.

A. Kupers and O. Randal-Williams, *On the cohomology of Torelli groups.*
Forum of Mathematics, Pi, **8** (2020), E7.

S. Galatius, A. Kupers, and O. Randal-Williams, E_2-*cells and mapping class groups*
IHÉS. Publications Mathématiques **130** (1) (2019) 1-61.

O. Randal-Williams and N. Wahl, *Homological stability for automorphism groups.*
Advances in Mathematics **318** (2017) 534-626.

S. Galatius and O. Randal-Williams, *Homological stability for moduli spaces of high dimensional manifolds. I*
Journal of the American Mathematical Society **31** (1) (2018) 215-268.

S. Galatius and O. Randal-Williams, *Homological stability for moduli spaces of high dimensional manifolds. II.*
Annals of Mathematics **186** (1) (2017) 127-204.

B. Botvinnik, J. Ebert, and O. Randal-Williams, *Infinite loop spaces and positive scalar curvature.*
Inventiones mathematicae **209** (3) (2017), 749-835.

O. Randal-Williams, *Resolutions of moduli spaces and homological stability.*
Journal of the European Mathematical Society **18** (2016) 1–81.

S. Galatius and O. Randal-Williams, *Stable moduli spaces of high dimensional manifolds.*
Acta Mathematica **212** (2014), no. 2, 257-377.

S. Galatius and O. Randal-Williams, *Monoids of moduli spaces of manifolds.*
Geometry & Topology **14** (3) (2010) 1243–1302.