Curriculum Vitae

DOMINIC VERITY

Centre of Australian Category Theory Department of Mathematics and Statistics Faculty of Science and Engineering Macquarie University, Sydney, NSW 2109, Australia

Email: dominic.verity@mq.edu.au

Homepage: http://dom-verity.github.io

ORCID: https://orcid.org/0000-0002-4137-6982

URL: https://researchers.mq.edu.au/en/persons/dominic-verity

Current position

Emeritus Professor of Pure Mathematics, Macquarie University

Areas of research interest

Higher Category Theory • Homotopy Theory • Programming Languages

APPOINTMENTS HELD

2020-2021	Professor of Pure Mathematics, Department of Mathematics and Statistics, Faculty of Science and
	Engineering, Macquarie University, Australia
2012-2020	Professor of Computing, Department of Computing, Faculty of Science and Engineering, Macquarie
	University, Australia
2013-2017	Chair of Academic Senate, Vice-Chancellor's Office, Macquarie University, Australia
2001-2007	Director of Postgraduate Programs, Division of ICS, Macquarie University, Australia
2001-2012	Associate Professor, Department of Computing, Macquarie University, Australia
2000-2001	Senior Lecturer, Department of Computing, Macquarie University, Australia
1999-2000	Director and Lead Consultant, Categorical Solutions Pty. Ltd., Sydney, Australia
1996-1999	Head of Equity Derivative Trading, HSBC James Capel, Sydney, Australia
1995-1996	Senior Quantitative Analyst, Equity Derivatives Trading, Deutsche Bank, Syndey, Australia
1993-1995	Consultant Quantitative Analyst, Bain and Company, Deutsche Bank, Syndey, Australia
1993-1995	Lecturer, Department of Mathematics, Macquarie University, Australia
1992-1993	Research Fellow, Department of Mathematics, Macquarie University, Australia
1991-1992	Research Fellow, Department of Pure Maths and Mathematical Statistics, Cambridge University, UK
1983-1984	Computer Engineer, BBC World Service, Bush House, London, UK
1981-1983	Computer Programmer, Acorn Computers Limited (now ARM Limited), Cambridge, UK

MACQUARIE University

EDUCATION

1988-1992	PhD in Mathematics, Fitzwilliam College, Cambridge University, UK
1987-1988	Part III Mathematics, awarded with Distinction, Fitzwilliam College, Cambridge University, UK
1984-1987	BSc (Hons) Mathematics, Double 1st Class, Fitzwilliam College, Cambridge University, UK

RECENT AWARDS, INVITATIONS & HONORARY APPOINTMENTS

2020	Research Professor and Program Organiser, Mathematical Sciences Research Institute (MSRI)
	program "Higher Categories and Categorification", Berkeley (CA) USA.
2019	Visiting Research Fellow, Dept. of Mathematics, Johns Hopkins University, Baltimore (MD) USA
2018	Invited Mentor, Mass. Institute of Technology, Talbot Workshop, Course title: "Model-independent
	theory of ∞-Categories", Portland (OR) USA

2017	Invited Lecturer, AMSI Summer School 2017, Course title: "Category Theory and Computer Science",
	Sydney University, Australia.
2016	Visiting Professor, Dept. of Mathematics and Mathematical Statistics, Cambridge University, UK
2016	Visiting Research Fellow, Max Planck Institute for Mathemantics, Bonn, Germany
2015,2016	Visiting Research Fellow, Dept. of Mathematics, Johns Hopkins University, Baltimore MD, USA
2012-2015	Associate in Mathematics, Dept. of Mathematics, Harvard University, Cambridge MA, US (various
	separate appointments)
2011	Invited Participant, Mathematisches Forschungsinstitut Oberwolfach, Mini-workshop: "The
	homotopy interpretation of constructive type theory", Germany
2011	National Citation for Outstanding Contribution to Student Learning, Australian Learning and
	Teaching Council (ALTC), "For a decade of inspirational and innovative educational leadership in the
	field of Information Technology
2009	Vice Chancellor's Award for Teaching Excellence, Macquarie University, "For leadership and
	development of postgraduate and professional development programs in Information Technology"
2006 and 2009	Visiting Research Fellow, Fitzwilliam College and Visiting Professor, Department of Pure Mathematics
	and Mathematical Statistics, Cambridge University, UK

EXTERNALLY FUNDED GRANTS

2019-2021	(with R. Street, S. Lack & R. Garner) Australian Research Council, Discovery Project
	DP190102432, "Working synthetically in higher categorical structures", AU\$453,000
2016-2018	(with R. Street, S. Lack & R. Garner) Australian Research Council, Discovery Project
	DP160101519 , "Monoidal categories and beyond: new contexts and new applications", AU\$580,900
2015-2018	(with M. Hillier, A. Fluck et. al.) Australian Government Office of Learning and Teaching,
	"Transforming exams across Australia: processes and platform for e-exams in high stakes, supervised
	environments", AU\$500,000
2013-2015	(with R. Street, S. Lack & R. Garner) Australian Research Council, Discovery Project
	DP130101969, "Structural homotopy theory: a category-theoretic study", AU\$600,000
2010-2012	(with R. Street, M. Johnson & S. Lack) Australian Research Council, Discovery Project
	DP1094883, "Applicable Categorical Structures". AU\$290,000
2007-2009	(with R. Street, M. Johnson & S. Lack) Australian Research Council, Discovery Project
	DP0771252 , "Cohomology enhanced: an application of enriched and higher categories". AU\$276,000

PhD students

2021 ongoing 2021 ongoing 2020 ongoing 2018 ongoing 2020 awarded	(with S. Lack) David Farrell, "Model independent fibred ∞-category theory" (with R. Garner) Yao Tang, "Higher categories and dependently typed logics" (with S. Lack) Nicola Di Vittorio, "Higher derivators as a foundation for ∞-category theory" (with R. Garner) Paula Verdugo, "Synthetic ∞-category theory" (with R. Street) Yuki Maehara, "The Gray tensor product for 2-quasi-categories", Vice-Chancellor's
	Medal for Excellence
2018 awarded 2015 awarded	(with R. Garner) Edoardo Lanari, "Cylinder objects for Grothendiek-Maltsiniotis ∞-groupoids" (with R. Garner) Mitchell Buckley, "Three studies in higher category theory: fibrations, skew monoidal structures and excision of extremals"
2015 awarded	(with R. Garner) Matthew Burke, "Synthetic Lie Theory"
2012 awarded	(with R. Street) Thomas Booker, "Generalized and particular monoidal categories, and structures therein"
2012 awarded	(with R. Street) David Oury, "Duality for Joyal's category Θ and homotopy concepts for Θ -sets"
2011 awarded	(with M. Johnson) Micah McCurdy, "Cyclic *-autonomous categories and the Tannaka adjunction via graphical methods"
2011 awarded 2010 awarded 2007 awarded	(with A. Sloane) Matthew Roberts, "Compiled generics for functional programming languages" (with P. Watters) Wai Han Ho, "On the evaluation of face identification systems" (with A. Sloane) Ekaterina Stefanov, "Simple code compression and customisation for bytecode for interpreters"

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