

Michelle Strumila

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*Research in algebraic topology: cyclic and modular operads,
dendroidal sets, and TQFTs*

Education

University of Melbourne

PhD. Mathematics

The cyclic infinity surface operad

Supervisor: Marcy Robertson

Melbourne, Australia

2016–

Monash University

Bachelor of Science (Adv) with honours

○ Honours thesis: TQFTs, contact geometry, and information theory

Supervisor: Daniel Mathews

○ Undergraduate thesis: Inhomogeneous Cosmology in an Anisotropic Universe

Supervisor: Daniel Price

Melbourne, Australia

2015

Awards and Grants

All awards are in approximate conversion to AUD.

MSRI travel grant: Derived geometry and higher categorical structures in geometry and physics summer school, 2018, \$1,400

WIMSIG travel grant: Women in mathematics conference, Adelaide, 2017, \$600

AMSI travel grant: Summer school, 2015

AMSI research award: Vacation research project, 2014, \$2700

○ Topological Quantum Field Theory and Information Theory

Supervisor: Daniel Mathews

Conferences (Selected)

Topology in Australia and South Korea: IBS-CGP, Pohang, South Korea, 2018

Category theory, algebraic topology, and K-theory session at AustMS: Macquarie University, Sydney, Australia, 2017

WIMSIG conference: University of South Australia, Australia, 2017

○ Coloured cyclic operads

Topology in Australia and South Korea: University of Melbourne, Australia, 2017

Higher structures in Geometry and Physics: Matrix, Creswick, Australia, 2016

AMSI VRS: University of New South Wales, 2014

○ Topological Quantum Field Theory and Information Theory

Teaching

Monash University

Teaching Assistant

Melbourne, Australia

2014–

- *MTH2010: Multivariable calculus*
Finding and proving limits in two variables (including $\varepsilon - \delta$ proofs), partial derivatives, Green's theorem and Stoke's theorem
- *MTH1030: Techniques for modelling*
Calculus and linear algebra
- *MAT1841/MAT2003: Continuous mathematics for computer science*
Combinatorics, probability, calculus, linear algebra
- *MAT1830: Discrete mathematics for computer science*
Logic, induction, recursion, graph theory, combinatorics

Service

Graduate topology seminar: Co-organised with Xing Gu, Semester 2 2018

World Maths Competition: Supervisor and judge, University of Melbourne, 2018

Graduate student website: Creating content (including video lectures) for a graduate student website, University of Melbourne, 2017

Languages

English: Fluent

Mother tongue

Italian: Moderate

Completed VCE, visited Italy, currently out of practice

Russian, Ukrainian, Latin: Basic

Have studied at university level