

William Troiani Curriculum Vitae

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<https://williamtroiani.github.io>

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Education

2017 – 2019 **Master of Science (Mathematics and Statistics) with Honours**

University of Melbourne

Specialisation: Pure Mathematics

Thesis Topic: Simplicial Sets Are Algorithms

Supervisor: Daniel Murfet

2013 – 2016 **Bachelor of Science (Mathematics and Statistics)**

University of Melbourne

Scholarships

2015 **University of Melbourne**

Vacation scholarship

<https://ms.unimelb.edu.au/engage/vacation-scholarships>

2016 **AMSI**

Vacation research scholarship

<https://vrs.amsi.org.au/>

2017 **AMSI Summer School**

Travel grant

Academic Experience

2016 – Present **Research Assistant**
For Daniel Murfet, University of Melbourne

Seminar Talks

2019 **Quantum Computing Seminar**
Reversible Turing Machines
A Crash Course in Simplicial Homology with Coefficients in $\mathbb{Z} \bmod 2$

Graduate Topology Seminar
Arithmetisation and Interaction

2018 **Topos Theory and Logic Seminar**
Monads and Programs
Higher-Order Logic and Topoi
The Classifying Space of Rings

2016 **Curry-Howard Isomorphism Seminar**
The Church-Rosser Theorem
Introduction to Lambda Calculus
System F in the Real World: Haskell and Functional Programming

For more, see:

<https://williamtroiani.github.io/SeminarTalks>

<http://therisingsea.org/post/seminar-ch/>

<https://researchers.ms.unimelb.edu.au/~tquella@unimelb/#QC>

Tutoring

2017 – Present	Tutor at University of Melbourne Employed on a casual basis for the following subjects:
<i>2020</i>	Complex Analysis (MAST30021) 2 x classes Real Analysis (Mast20026) 6 x classes
<i>2019</i>	Vector Calculus (MAST20009) 5 x classes Real Analysis (MAST20026) 7 x classes Complex Analysis (MAST30021) Marker & fill-in tutor
<i>2018</i>	Real Analysis (MAST20026) 4 x classes Discrete Mathematics and Operations Research (MAST20018) 1 x class
<i>2017</i>	Vector Calculus (MAST20009) 4 x classes
2016 – Present	Self-Employed Tutor
<i>2016 - Present</i>	University of Melbourne Personally tutored roughly 10 students for the above subjects.
<i>2012 – Present</i>	VCE/IB Tutor Self-employed private tutor for roughly 30 students, ranging from Specialist Mathematics (VCE) to a 2-year-old learning to write numbers.
2012 – 2015	Private Tutoring
<i>2015 - Present</i>	LearnMate Tutoring Currently employed as a tutor on a casual basis
<i>2013 – 2016</i>	EzyMath Tutoring Casual tutor
<i>2013</i>	Kumon (Kew) Part-time marker

Referees

Academic	Daniel Murfet, d.murfet@unimelb.edu.au , 0497 999 559 (email preferred) Marcy Robertson, mdr574@gmail.com
Tutoring	John Banks, john.banks@unimelb.edu.au , 8344 3687 Kay Wee, 0418 306 858