

Luke Colin Thorburn

CONTACT INFORMATION

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RESEARCH INTERESTS

Probability, complex systems, economics, the limits of knowledge.

EDUCATION

Australian Mathematical Sciences Institute

Summer School, 2018
Completed two honours-level subjects: Topological Data Analysis and Probabilistic Methods & Random Graphs.

The University of Melbourne

Master of Science, 2017 -
Specialising in Statistics & Stochastic Processes.

Duke University

Summer Institute, 2017
One of 32 selected to participate in the second week of a Topics in the History of Economics hosted by the Center for the History of Political Economy.

The University of Melbourne

Bachelor of Science, 2014 - 2016
Majored in Mathematics & Statistics, specialised in Statistics and Stochastic Processes. Graduated with First Class Honours.

Diploma of Languages (Japanese), 2014 - 2016

St Leonard's College

International Baccalaureate Diploma, 2012 - 2013
Studied Literature, Japanese and Chemistry at standard level, Mathematics, Physics and Economics at higher level. Awarded 43/45, equivalent to a notional ATAR of 99.60.

EMPLOYMENT

Data Scientist, Resilient Youth Australia **2016 -**
Part-time, providing visualisations and descriptive analysis of data from an ongoing survey measuring resilience in primary and secondary school students.

Student Study Assistant, St Leonard's College **2014 -**
Casual, providing academic tutoring to students after school, on weekends and during school holidays.

International Evaluator amp; Future Scene Writer, Future Problem Solving Program Australia **2011 -**

Academic Tutor, Newman College **2017**
Tutoring in Linear Statistical Models, a third-year subject.

Research Assistant, The University of Melbourne **2017**

Worked with A/Prof. Tony Wirth and James Saunderson in the Department of Computing and Information Systems on algorithms for the finding of densest subgraphs.

Research Assistant, CSIRO Manufacturing (Biomedical) **2016 - 2017**
Using D3.js to visualise phase space in protein crystallisation. Originally 6-month appointment through the Undergraduate Research Opportunities Program (UROP), with some follow-up work in 2017.

Stochastic Modelling, Mercer **2014 - 2015**
Fixed-term Summer project, stochastically modelling mortalities for a new retirement income product, LifetimePlus.

Private Academic Tutor **2014 - 2017**
Casual, self-employed. Mainly in Mathematics, Physics and Economics. More than 300 hours of tutoring experience.

COMMUNITY
SERVICE

Moderniser of Evaluator Resources, Future Problem Solving Program Australia **2015 -**
Currently building an online evaluation platform using the Django framework, to be trialled in 2019. If successful, this will obviate more than A2000perannuminpostagecosts.Previously,IrewrotetheEvaluatorHan

Director, Australian Cancer and Health Sciences Competition Inc. **2015 - 2017**

Video Producer, iGEM UniMelb **2014**
Produced a triumvirate of short videos to help explain and promote the work of the team from The University of Melbourne entering the International Genetically Engineered Machine competition.

Peer Support Leader, St Leonard's College **2012**

SCOPE Leader, St Leonard's College **2011**
Mentored an overly reserved grade three student.

AWARDS AND
HONOURS

2018
Maurice H. Belz Scholarship, *The University of Melbourne*

2016
Leaders in Communities Award (LiCA), *The University of Melbourne*
Undergraduate Research Opportunities Program (UROP) Scholar, *Biomedical Research Victoria*

2015
Keith Frampton Roll of Honour (Member), *Future Problem Solving Program Australia*
Highest Mark, ATOC20001 Weather & Climate Systems, *The University of Melbourne*

2014
Second Place, ECON10004 Introductory Microeconomics Film Competition, *The University of Melbourne*

2013

Year 12 IB Dux, *St Leonard's College*

Old Collegian's Award for Positive Involvement, *St Leonard's College*

Full College, Music and House Colours, *St Leonard's College*

2012

Monash Prize for Excellence & Year 11 IB Dux, *St Leonard's College*

E. Paul Torrance Youth Award, *Future Problem Solving Program Australia*

ARTICLES

Thorburn, L. Here Comes the Sun. *Farrago*, 2015(2), p41.