

AREAS OF INTEREST	AI Alignment (Value Learning, Corrigibility, Transparency), Theory of Artificial Intelligence (Reinforcement Learning, Algorithmic Information Theory, Statistical Machine Learning), Economics (Agency Theory)	
DEGREES	<p><i>Doctor of Philosophy in Computer Science</i>, 2016 – present University of California, Berkeley</p> <ul style="list-style-type: none"> Studying AI alignment, supervised by Stuart Russell. GPA: 4.00/4.00 <p><i>Bachelor of Philosophy (Hons)</i>, 2012 – 2015 Australian National University</p> <ul style="list-style-type: none"> Honours in Computer Science, undergraduate studies in Mathematics and Physics. Thesis: “Resource-bounded Complexity-based Priors for Agents”, supervised by Marcus Hutter. GPA: 7.00/7.00, 1st Class Honours. 	
PUBLICATIONS	<ul style="list-style-type: none"> Loss Bounds and Time Complexity for Speed Priors. With Jan Leike and Marcus Hutter. AISTATS 2016. Self-modification of Policy and Utility Function in Rational Agents. With Tom Everitt (lead author), Mayank Daswani, and Marcus Hutter. AGI 2016, recipient of Kurzweil Prize for Best Paper. 	
SELECTED AWARDS	<p><i>University Medal</i>, Australian National University 2015</p> <ul style="list-style-type: none"> Prize; awarded to students who have obtained First Class Honours (or Masters Advanced Equivalent) and demonstrated exceptional academic excellence across their studies, the highest academic prize for undergraduates. <p><i>Erin Brent Computer Science Prize</i>, Australian National University 2015</p> <ul style="list-style-type: none"> Monetary prize; awarded to the student who achieved the best Honours result in any of the degree programs relating to Computer Science, Software Engineering or Information Technology. <p><i>National Merit Scholarship</i>, Australian National University 2012 – 2015</p> <ul style="list-style-type: none"> Annual funding; awarded to the top ~ 0.5% of school leavers. <p><i>Hanna Neumann Prize for Second Year Mathematics</i>, 2013 Australian National University</p> <ul style="list-style-type: none"> Monetary prize; awarded to the top student in second year mathematics courses. <p><i>Dean’s Commendation List</i>, Australian National University 2012</p> <ul style="list-style-type: none"> Prize; awarded to students who achieve scores of 90 or above in all science courses in a particular year. 	
INTERNSHIPS	<p><i>Future of Humanity Institute, Oxford University</i> 2016</p> <ul style="list-style-type: none"> Writing code for agentmodels.org, a website designed to explain the use of probabilistic programs to build models of agents and perform inference about them. 	

**TEACHING
EXPERIENCE**

Teaching Assistant, MATH2322 Advanced Algebra 1
ANU Mathematical Sciences Institute

Semester 2 2015

Teaching Assistant, MATH2320 Advanced Analysis 1
ANU Mathematical Sciences Institute

Semester 1 2015

Teaching Assistant, COMP2610 Information Theory
ANU Research School of Computer Science

Semester 2 2014

**UNDERGRAD
RESEARCH**

Summer Research Scholar
ANU Mathematical Sciences Institute

Summer 2013–2014

- An investigation into the theory and practice of measure-theoretic image packing.

Undergraduate Research Projects
ANU Research School of Computer Science

2013, 2014

- Extreme state aggregation beyond MDPs: Tightness of FRL bounds.

Department of Quantum Sciences, ANU Research School of Physics and Engineering

- Proofs of impossibility theorems regarding tests of oneself being in superposition.
- An investigation into the self-gravitation of light in general relativity.