

AREAS OF INTEREST	AI Safety (Value Alignment, Corrigibility, Transparency), Theory of Artificial Intelligence (Reinforcement Learning, Algorithmic Information Theory, Statistical Machine Learning).
DEGREES	<i>Doctor of Philosophy in Computer Science</i> , 2016 – present University of California, Berkeley <ul style="list-style-type: none">Studying AI safety, supervised by Stuart Russell. <i>Bachelor of Philosophy (Hons)</i> , 2012 – 2015 Australian National University <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	<i>University Medal</i> , Australian National University 2015 <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. <i>Erin Brent Computer Science Prize</i> , Australian National University 2015 <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. <i>National Merit Scholarship</i> , Australian National University 2012 – 2015 <ul style="list-style-type: none">Annual funding; awarded to the top ~ 0.5% of school leavers. <i>Hanna Neumann Prize for Second Year Mathematics</i> , 2013 Australian National University <ul style="list-style-type: none">Monetary prize; awarded to the top student in second year mathematics courses. <i>Dean’s Commendation List</i> , Australian National University 2012 <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	<i>Future of Humanity Institute, Oxford University</i> 2016 <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	<i>Teaching Assistant</i> , MATH2322 Advanced Algebra 1 Semester 2 2015 ANU Mathematical Sciences Institute <i>Teaching Assistant</i> , MATH2320 Advanced Analysis 1 Semester 1 2015 ANU Mathematical Sciences Institute

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

Semester 2 2014

**UNDERGRAD
RESEARCH**

Summer Research Scholar

Summer 2013–2014

ANU Mathematical Sciences Institute

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

Undergraduate Research Projects

2013, 2014

ANU Research School of Computer Science

- 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.