

# johnaslanides

Research Engineer



## contact

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## links

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🔗 [aslanides.io](#)

## technical

Machine learning  
Artificial intelligence  
Software engineering  
Applied mathematics

## programming

Python • TensorFlow  
Go • JavaScript  
MATLab • L<sup>A</sup>T<sub>E</sub>X  
*Mathematica*  
Excel/VBA

## education

- 2015 - 2016 **MSc • Computer Science (Hons)** [The Australian National University](#)  
First Class Honours and the University Medal • 7.0/7.0 GPA  
Specialization: Artificial Intelligence  
Thesis: [AIXIjs: A Software Demo for General Reinforcement Learning](#)  
Advisors: Dr. [Jan Leike](#) & Professor [Marcus Hutter](#)
- 2008 - 2012 **BSc • Physics (Hons)** [The Australian National University](#)  
First Class Honours • 6.2/7.0 GPA  
Specialization: Theoretical Physics  
Thesis: [Relativity Concept Inventory](#)  
Advisor: Professor [Craig Savage](#)
- 2011 **Associate in Music, Australia (AMusA)** [Australian Music Examinations Board](#)  
Award with Distinction • Piano Performance  
Diploma awarded by examination to outstanding candidates in the fields of musical performance and music theory.
- 2006 - 2007 **High School Certificate** [Canberra Grammar School](#)  
1<sup>st</sup> in physics & french, and top overall science student • 99.25 ATAR  
Extension 2 Mathematics, Physics, Chemistry, English, Extension French

## experience

- 2017 - **Research Engineer** [Google DeepMind](#)  
Artificial Intelligence research, focussing on reinforcement learning.
- 2017 **Machine Learning Consultant** [Self-employed](#)  
Machine learning R&D for a telematics tech startup in Sydney.  
Technologies include GIS, time series clustering, and deep learning.
- 2015 - 2016 **Software Engineer** [Karma Wiki](#)  
Backend web development for a social network startup based in Canberra.  
Implemented numerous features, including draft and notification systems.
- 2014 - 2015 **Software Consultant** [Stygron Systems](#)  
Software developer & consultant to ACT Health. Designed and implemented systems for use in operating theatres and labs in the Canberra Hospital, and maintained existing medical supply chain systems.
- 2013 - 2014 **Graduate Researcher** [NICTA & The Australian National University](#)  
PhD researcher in physics. Developed my skills in statistics, signal processing and machine learning on two projects:
  - Novel signal processing techniques for the [LIGO](#) project.
  - Structured prediction on conditional random fields.Teaching assistant for two undergraduate physics courses:
  - [PHYS1201](#) – electromagnetism, waves & optics, and special relativity.
  - [PHYS3001](#) – variational calculus, quantum mechanics, electromagnetism & relativistic field theory.

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## publications

- 2013      **The Relativity Concept Inventory**      Physical Review Special Topics  
J. S. Aslanides & C. M. Savage  
Phys. Rev. Special Topics: Physics Education Research Vol. 9, Issue 1
- 2017      **General reinforcement learning: survey & experiments**      IJCAI 2017  
J. S. Aslanides, J. Leike, and M. Hutter  
Proc. of 26th International Joint Conference on Artificial Intelligence

## awards

- 2016      **University Medal**      The Australian National University (ANU)
- 2014      **Top-up Scholarship**      National ICT Australia (NICTA) (\$10,000/year)
- 2013      **Australian Postgraduate Award**      Commonwealth Government (\$25,000/year)
- 2012      **John Carver Honours Scholarship**      ANU (\$2,500/year)
- 2008      **College of Business & Economics Undergraduate Award**      ANU (\$5,000)
- 2007      **HSC Premier's Award**      NSW Government