johnaslanides

Machine Learning

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links

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technical

Machine learning
Artificial intelligence
Software engineering
Applied mathematics

programming

Python • Julia
C • Go • Java
MATLab • LaTeX
Mathematica
JavaScript
Excel/VBA

conferences

CFAR (Berkeley, 2016)
ACML (ANU, 2013)
AIP (UNSW, 2012)

languages

English (native)
French (semi-fluent)
Spanish (basic)

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
1st in physics & french, and top overall science student • 99.25 ATAR
Extension 2 Mathematics, Physics, Chemistry, English, Extension French

experience

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
Spent 9 months doing web development for a social network startup based in Canberra. Implemented numerous features, including draft and notification systems. Supervisor: Dayne Rathbone
Software Stack: Go • Cassandra • Git • JIRA

2014 - 2015 **Software Consultant** Stygron Systems
Spent 4 months as a 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. Supervisor: Mervyn Rose
Software Stack: Centura • Microsoft SQL Server

2013 - 2014 **Graduate Researcher** NICTA & The Australian National University
Spent 18 months as a PhD researcher in physics. Developed my interests in statistics and machine learning, and developed my programming skills on two projects:

- Novel signal processing techniques for the Laser Interferometer Gravitational Wave Observatory (LIGO) project. • Advisor: Dr. Ra Inta
- Structured prediction with conditional random fields • Advisor: Dr. Justin Domke

2013 **Teaching Assistant** The Australian National University
Ran tutorials & office hours. Graded assignments & papers, and wrote model solutions. 4.5/5.0 average score in student feedback:
- PHYS1201 (Advanced Physics II) - electromagnetism, waves & optics, and special relativity • Supervisor: Professor Craig Savage.
- PHYS3001 (Theoretical Physics I) - variational calculus, quantum mechanics, electromagnetism & relativistic field theory. • Supervisor: Professor Joe Hope

2008 - 2012 **Private Tutor** Self-employed
Taught mathematics physics, and piano to high school students from Year 8 - Year 12.

2011 **Medical Receptionist** Kambah Village Medical Practice
Patient admin and service at a high-volume GP clinic.

awards

2016 **University Medal** The Australian National University (ANU)
The University Medal recognises students who have obtained First Class Honours (or Masters Advanced Equivalent) and demonstrated exceptional academic excellence across their studies.

2014 **Top-up Scholarship** National ICT Australia (NICTA)
Scholarship for graduate researchers. ($10,000/year)

2013 **Australian Postgraduate Award** Commonwealth Government
Scholarship for graduate researchers. ($25,000/year)

2012 **John Carver Honours Scholarship** ANU
Scholarship for physics Honours students. ($2,500/year)

2008 **College of Business & Economics Undergraduate Award** ANU
Scholarship for outstanding first-year economics students. ($5,000)

2007 **Premier's Award** NSW Government
Prize awarded to students who achieve results of over 90 in 10 units of study in the HSC.

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** (under preparation)
J. S. Aslanides, J. Leike, and M. Hutter