JONATHON SCHWARTZ

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EDUCATION

BSc (Hons) Computer Science

2016-2018

University of Queensland

- GPA: 6.79/7.00, 1st Class Honors.
- Thesis: "Autonomous Penetration Testing using Reinforcement Learning", supervised by Hanna Kurniawati.

BMarSt (Hons) Marine Biology and Ecology

2010-2014

University of Queensland

- GPA: 6.34/7.00, 1st Class Honors.
- Thesis: "Does control of the heart hold the key to survival in a warming world in a diving ectotherm?", supervised by Craig Franklin.

RESEARCH EXPERIENCE

Research Engineer

Australian National University

2019-present

- Research into autonomous cyber operations,
- developing a high-fidelity cyber research environment, and
- applying planning under uncertainty to cyber operations.

PUBLICATIONS

Jonathon Schwartz, Edwin El-Mahassni, Hanna Kurniawati, "POMDP + Information-Decay: Incorporating Defenders Behaviour in Autonomous Penetration Testing". *Proceedings of the Thirtieth International Conference on Automated Planning and Scheduling (ICAPS)* 2020. Under review.

Essie Rodgers, **Jonathon Schwartz**, Craig Franklin. "Diving in a warming world: the thermal sensitivity and plasticity of diving performance in juvenile estuarine crocodiles (Crocodylus porosus)". Conservation physiology, 3(1), 2015.

AWARDS

University Medal	 University of Queensland Awarded to students who have obtained 1st Class Honours and demonstrated exceptional academic excellence across their studies, the highest academic prize for undergraduates across the entire University. 	2018
Best Software Project	University of Queensland • \$1000 prize awarded to the best undergraduate thesis or capstone	2018

ture and Information Technology.

software project across the entire Faculty of Engineering, Architec-

TEACHING EXPERIENCE

Teaching COMP3600 Algorithms 2019 Assistant Australian National University • Ran labs and marked assignments and exams for third year Algorithms course. **Teaching** COMP3702 Artificial Intelligence 2018 Assistant University of Queensland • Ran labs and marked assignments and exams for third year Artificial Intelligence course. **Tutor** GEOM1000 Geographic Information 2011-2012 University of Queensland **Tutor** BIOL1030 Biodiversity & Our Environment 2011 University of Queensland

TECHNICAL SKILLS

Programming Python, C, C++, Java
Technologies AWS, VM Management

Machine TensorFlow

Learning

For some examples of my work please see my github: github.com/Jjschwartz.

Unfortunately, most of my recent work has been as part of a defence project so is unavailable.

OTHER RELATED STUDY

Deep Learning
Specialization

Coursera, deeplearning.ai

Five courses covering deep learning theory and implementation of common architectures.

OTHER WORK EXPERIENCE

Urban Climb Head Coach, Sales Manager, Event Organizer 2013-2018

- Coached children and adults from beginner to national level athletes in rock climbing.
- Oversaw climbing equipment sales across four venues.
- Organized Australia's largest state and national level climbing events. Involved raising more than \$20,000 in sponsorship and coordinating all aspects of events.