

JONATHON SCHWARTZ

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EDUCATION

BSc (Hons)	Computer Science University of Queensland <ul style="list-style-type: none">• GPA: 6.79/7.00, 1st Class Honors.• Thesis: “Autonomous Penetration Testing using Reinforcement Learning”, supervised by Hanna Kurniawati.	2016-2018
BMarSt (Hons)	Marine Biology and Ecology University of Queensland <ul style="list-style-type: none">• 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.	2010-2014

RESEARCH EXPERIENCE

Research Engineer	Australian National University <ul style="list-style-type: none">• Research into autonomous cyber operations,• developing a high-fidelity cyber research environment, and• applying planning under uncertainty to cyber operations.	2019-present
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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.

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 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• \$1000 prize awarded to the best undergraduate thesis or capstone software project across the entire Faculty of Engineering, Architecture and Information Technology.	2018

TEACHING EXPERIENCE

Teaching Assistant	COMP3600 Algorithms Australian National University <ul style="list-style-type: none">• Ran labs and marked assignments and exams for third year Algorithms course.	2019
Teaching Assistant	COMP3702 Artificial Intelligence University of Queensland <ul style="list-style-type: none">• Ran labs and marked assignments and exams for third year Artificial Intelligence course.	2018
Tutor	GEOM1000 Geographic Information University of Queensland	2011-2012
Tutor	BIOL1030 Biodiversity & Our Environment University of Queensland	2011

TECHNICAL SKILLS

Programming	Python, C, C++, Java
Technologies	AWS, VM Management
Machine Learning	TensorFlow

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 <ul style="list-style-type: none">• Five courses covering deep learning theory and implementation of common architectures.	2018
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OTHER WORK EXPERIENCE

Urban Climb	Head Coach, Sales Manager, Event Organizer <ul style="list-style-type: none">• 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.	2013-2018
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