

SAM TOYER

Berkeley, USA 

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qxcv.net/research/ 

EDUCATION

PhD in Computer Science

University of California, Berkeley

2018 - *present*

Bachelor of Advanced Computing (R&D, Honours)

Australian National University (ANU)

2014 - 2017

GPA 7.0/7.0; University Medal

PUBLICATIONS AND TECHNICAL REPORTS

ASNeTs: Deep Learning for Generalised Planning

S. Toyer, F. Trevizan, S. Thiébaux, L. Xie (2020)

JAIR (2020)

Variational Discriminator Bottleneck: Improving Imitation Learning, Inverse RL, and GANs by Constraining Information Flow

X.B. Peng, A. Kanazawa, S. Toyer, P. Abbeel, S. Levine (2019)

ICLR'19

Guiding Heuristic Search with Generalised Policies for Probabilistic Planning

W. Shen, F. Trevizan, S. Toyer, S. Thiébaux, L. Xie (2018)

SOCS'19

Action Schema Networks: Generalised Policies with Deep Learning

S. Toyer, F. Trevizan, S. Thiébaux, L. Xie (2017)

AAAI'18

Generalised Policies for Probabilistic Planning with Deep Learning

S. Toyer (2017)

Honours thesis

Human Pose Forecasting via Deep Markov Models

S. Toyer, A. Cherian, T. Han, S. Gould (2017)

DICTA'17

Publishing and Using Earth Observation Data with the RDF Data Cube and the Discrete Global Grid System

D. Brizhinev, S. Toyer, K. Taylor, Z. Zhang (2017)

W3C Note
(w3.org/TR/eo-qb/)

QBCov: A Linked Data Interface for Discrete Global Grid Systems

Z. Zhang, S. Toyer, D. Brizhinev, M. Ledger, K. Taylor, M. Purss (2016)

AGU Fall Meeting '16
(extended abstract)

EMPLOYMENT AND TEACHING EXPERIENCE

Research Engineer

Seasure Pty Ltd

Dec 2017 - 2018

First employee at a local startup working on methods for testing computer vision systems.

Summer Scholar

Australian National University

2016 - 2017

Worked on conformant probabilistic planning with Dr Enrico Scala.

Tutor

Australian National University

2015 - 2017

Tutored Formal Methods in Software Engineering (2015), The Craft of Computing (2015-2017), Introduction to Programming for Data Scientists (2016-2017), and Artificial Intelligence (2017).

Summer Intern

Australian National University

2014 - 2015

Developed CodeBench, a web-based application for teaching Python programming which has since been used ANU's Craft of Computing and Introduction to Programming for Data Scientists courses.

Tutor

Simply Tuition

2014 - 2015

Provided high school students with in-home tuition in mathematics, English and physics.

SCHOLARSHIPS AND AWARDS

Tong Leong Lim Pre-Doctoral Prize (Berkeley EECS)	2019
Berkeley Fellowship for Graduate Study (Berkeley)	2018
Erin Brent Computer Science Prize (ANU CECS)	2018
University Medal (ANU)	2017
CECS Citation for Outstanding Contribution to Student Learning (ANU CECS) (joint award with Stephen Gould, Mark Reid, Armin Haller and Jeffrey Fisher)	2016
Google Prize for Computer Science (ANU CECS)	2016
CECS Dean's List (ANU)	2014
Boyapati Computer Science & Mathematics Prize for First Year (ANU)	2014
National University Scholarship (ANU)	2014 - 2017
Australian Student Prize (Aus. Gov.)	2013