

SAM TOYER

Berkeley, USA 

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qxcv.net/research 

EDUCATION

PhD in Computer Science

University of California, Berkeley

2018 - 2023 *expected*

Bachelor of Advanced Computing (R&D, Honours)

Australian National University (ANU)

2014 - 2017

GPA 7.0/7.0, University Medal

SELECTED PUBLICATIONS (visit qxcv.net/pubs for a complete list of publications)

An Empirical Investigation of Representation Learning for Imitation

X. Chen,* **S. Toyer**,* C. Wild,* S. Emmons, I. Fischer, K.H. Lee, N. Alex, S.H.

Wang, P. Luo, S. Russell, P. Abbeel, R. Shah (2021)

NeurIPS'21
(Datasets and
Benchmarks Track)

The MAGICAL Benchmark for Robust Imitation

S. Toyer, R. Shah, A. Critch, S. Russell (2020)

NeurIPS'20

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

Action Schema Networks: Generalised Policies with Deep Learning

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

AAAI'18

EMPLOYMENT AND TEACHING EXPERIENCE

Research Engineer, Seesure 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

Tutor (TA) for courses on formal methods, introductory programming, and AI.

Summer Intern, Australian National University

2014 - 2015

Developed CodeBench, a web-based application for teaching Python programming.

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