DENNIS LIU

tdennisliu@gmail.com
tdennisliu.github.io
www.linkedin.com/in/dennis-liu-5037
github.com/tdennisliu

Australian, engineer, data scientist

2018

2015 to 2017

Education	$Awards {\it \& } Achieve ments$	
The University of Adelaide	Invited speaker to WHO Pacific Region	2020
$Ph.D\ candidate:\ Mathematics\ (Statistics)$	COVID-19 Science and Research Seminar	2020
2017 to present	ARC Centre of Excellence for Mathematical	2019
• Utilising Bayesian statistical learning,	and Statistical Frontiers Public Lecture Data to Decisions CRC Big Data Scholar- ship Dean's Merit Certificate for Outstanding	2017
• Proficiency in Python and standard quantitative packages (numpy, pandas, sklearn etc.),		2009-
• Developing novel models and construct appropriate learning algorithms to infer parameters,	Academic Achievement	2012
	Max & Bette Mendelson Foundation Scholarship	2010
• Applying object-orientated programming to im-	South Australian Principal's Scholarship	2009
prove interpretability. Click here for more.	Australian Student Prize	2009
non-traditional datasets. I am interested in analysing hand forecasts of public health measures. B. Ma. Comp. Sci (Applied)	numan behaviour and examining their effects on m	
·		
B. Eng. (Chemical) with First Class Honours	2009-	2013
$Publications \ {\it @ Conferences}$		
Estimating temporal variation in transmission of SARS-CoV-2 and physical distancing behaviour in Australia. The Doherty Institute How to flatten the curve of coronavirus, a mathematician explains. The Conversation Elucidating user behaviours in a digital health surveillance system to correct prevalence estimates. Epidemics)20
		020
		020
Predicting influenza testing associated with family doctors by using a web-based Acceptance pending		ing

EMPLOYMENT EXPERIENCE

Complex Human Data Summer School

surveillance system.

Santos Ltd.

Unit Controller Engineer

My previous employment required me to work in a remote location in a gas plant control room, where gas production is to be processed all hours of the day.

- Communicate issues with other stakeholders clearly and concisely
- Important commercial and safety decisions are regularly made independently, often employing critical problem solving skills to arrive to a solution

Graduate Facilities Engineer

2014 to 2015

As a facilities engineer, I was responsible for various facility assets producing oil and gas, optimising production. Projects were delivered in a timely and economic manner, with deliverables and risks communicated clearly to key stakeholders for approval.

- $\bullet\,$ Optimisation of gas engines and compressors
- Project management
- Risk assessment

Globe Education Centre

Mathematics and Science Tutor

2009 to 2014

- Tutored students from the ages of 5 to 18 years of age in mathematics and science
- Supervised individuals and large classes

KEY STRENGTHS

- Clear communication skills in time constrained environments,
- Project management,
- Collaborative working.

REFEREES

Lewis Mitchell

Organisation: The University of Adelaide

Position: Senior Lecturer

Email: lewis.mitchell@adelaide.edu.au

Glenn Lydyard

Organisation: Santos Ltd.

Position: Manager Operations Technology (Digital)

Email: glenn.lydyard@santos.com

Sungkook Kwon

Organisation: Globe Education Centre

Position: Director

Email: skkwon@gecaustralia.com