DENNIS LIU

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github.com/tdennisliu

Australian, engineer, data scientist

$Awards {\it \& } Achievements$	
Australian winner of the ActInSpace® chal-	2020
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Invited speaker to WHO Pacific Region	2020
COVID-19 Science and Research Seminar ARC Centre of Excellence for Mathematical	2019
and Statistical Frontiers Public Lecture	
Data to Decisions CRC Big Data Scholar-	2017
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Dean's Merit Certificate for Outstanding	2009-
Academic Achievement	2012
Max & Bette Mendelson Foundation Scholarship	2010
	Australian winner of the ActInSpace® challenge Invited speaker to WHO Pacific Region COVID-19 Science and Research Seminar ARC Centre of Excellence for Mathematical and Statistical Frontiers Public Lecture Data to Decisions CRC Big Data Scholar- ship Dean's Merit Certificate for Outstanding Academic Achievement Max & Bette Mendelson Foundation Schol-

My research focuses on building frameworks to model social behaviour and infectious diseases using digital, non-traditional datasets. I am interested in analysing human behaviour and examining their effects on models and forecasts of public health measures.

B. Ma. Comp. Sci (Applied)	2011- 2015
B. Eng. (Chemical) with First Class Honours	2009- 2013

Publications & Conferences

Estimating temporal variation in transmission of SARS-CoV-2 and physical distancing	2020
behaviour in Australia. The Doherty Institute	
How to flatten the curve of coronavirus, a mathematician explains. The Conversation	2020
Elucidating user behaviours in a digital health surveillance system to correct preva-	2020
lence estimates. Epidemics	
Predicting influenza testing associated with family doctors by using a web-based	Acceptance pending
surveillance system.	
Complex Human Data Summer School	2018

EMPLOYMENT EXPERIENCE

Santos Ltd.

Unit Controller Engineer 2015 to 2017

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.

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- 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.

- 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: Associate Professor

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