

EDUCATION

The University of Adelaide

Ph.D candidate: Mathematics (Statistics) 2017 to present

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

Key skills:

- Utilising Bayesian inference and statistical learning,
- Proficient in Python and standard quantitative packages (numpy, pandas, sklearn etc.), and have some familiarity with R and Matlab.
- Developing novel models and construct appropriate learning algorithms to infer parameters,
- Understanding and applying solutions to complex problems,
- Applying object-orientated programming to improve interpretability of code. [Click here for more.](#)

B. Ma. Comp. Sci (Applied) 2011 to 2015

B. Eng. (Chemical) with First Class Honours 2009 to 2013

Awards & Achievements

Invited speaker to WHO Pacific Region COVID-19 Science and Research Seminar
Data to Decisions CRC Big Data Scholarship

Dean's Merit Certificate for Outstanding Academic Achievement

Max & Bette Mendelson Foundation Scholarship

South Australian Principal's Scholarship

Publications & Conferences

2020
How to flatten the curve of coronavirus, a mathematician explains. *The Conversation*

2020
Elucidating user behaviours in a digital health surveillance system to correct prevalence estimates. *Epidemics*

Pending publication

Predicting influenza testing associated with family doctors by using a web-based surveillance system.

Acceptance pending

Complex Human Data Summer School
2018

begin tabular p12.1cm c r Estimating temporal variation in transmission of SA

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

Lewis Mitchell

Organisation: The University of Adelaide
Position: Senior Lecturer
Email: lewis.mitchell@adelaide.edu.au

Glenn Lydyard

Organisation: Santos Ltd.
Position: Team Leader Advanced Analytics & Production Technologies
Email: glenn.lydyard@santos.com

Sungkook Kwon

Organisation: Globe Education Centre
Position: Director
Email: skkwon@gecaustralia.com