Gar Goei Loke

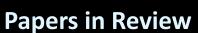
(+65) 9831 4864

gargoeiloke [AT] gmail [DOT] com gg-ed [DOT] github [DOT] io <u>Statement</u>: I am a Data Scientist by profession and an Operations Researcher by research. I like seeing data and decisions come together to deliver new value. I've dealt with Public Policy so far, but I'm excited to explore new avenues!

Education

PhD, National University of Singapore, 2015-19 Fortunate to be advised by Prof Kim Chuan Toh and Prof Melvyn Sim.

Master's and Degree, University of Cambridge, 2008-12



Exploiting Hidden Convexity in Queueing Networks – A Novel
Approach to Optimal Flow Control
With C. Bandi (Kellogg). Review & Resubmit in Operations Research.

Risk-based Manpower Planning – A Tractable Multi-period Model O-With P. Jaillet (MIT) and M. Sim (NUS). Major Revision in Operations Research.

The Analytics of Bed Shortages – Coherent Metric, Prediction & Optimization

With J. Xie (USTC), M. Sim (NUS) and S. W. Lam. Submitted to Operations Research.

Won Best Student Paper at POMS-HK 2018.

Intraday Scheduling with Patient Re-entries and Variability in Behaviours. With M. Zhou, C. Bandi, Z.Q.G. Liau, W. Wang. Submitted to MSOM Smart City Ops.

Employment



Visiting Assistant Professor, 2019-present Department of Analytics & Operations, NUS Business School

Senior Manager, Government Data Office, 2019
Smart Nation and Digital Government Office
Oversee data governance policies and practices across government

Quantitative Analyst, 2018-19
Data Science & Al Department, GovTech
Data science consultancy service by government for government

Lead Analyst, Strategic Planning & Research, 2014-17 Public Service Division, Prime Minister's Office

As Team Lead to a team of data scientists, I helped chart the growth of data science within PSD, forged business opportunities for the team, mentored and trained team members, and oversaw key projects.

On-going Projects

Robust Water Management. With C. Y. Chin, K. W. Tan and A. Ng
Robust Joint Capacity and Assignment. With Y. F. Lim and P. Wang
Inventory Decisions for Subscription-base Rental. With Z. Hu, Q. Tang and G. Yang

Other Achievements



Amateur Drama, 2011-12

Directed, co-produced, scripted and casted in musicals

International Math Olympiad, 2010 & 2007

Trained the Singapore team as Observer B in 2010; participated and awarded Bronze medal in 2007