Phillip Luong

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Professional Experience

Feb 2017 – Present

Teaching Associate

Monash University, Clayton

- Liaised with subject coordinators to discuss student feedback and curriculum
- Trialled assignments questions, and proofread assignments before release
- Exam Marker and Checker during Sem 1 2019, Sem 2 2020

Achievements

- Highly commended feedback from end-of-semester reviews. Achieved 27/29 'Outstanding' (highest score) reviews from 6 classes in 2020

Feb 2019 – Mar 2020

PhD Candidate (Computer Science)

RMIT University, Melbourne

Research Project: *Real-time Situation awareness with spatio-temporal analytics and Deep Learning for Emergency Services*

- Research project co-funded by RMIT University and Victoria Police
- Cutting-edge research about Graph Neural Networks and their applications
- Analysed and combined data sets relating human movement, emergency events and demographic information in cities such as Melbourne and New York
- Frequently liaised and successfully negotiated between RMIT University and Victoria Police to satisfy opposing objectives

Achievements

- Co-authored and edited several articles which led to publications in journals and conference proceedings

Mar 2018 – Mar 2019

Data Analyst

Flying Art Films, Port Melbourne

- Analysed data from social media platforms such as Instagram and Facebook
- Applied statistical techniques to social media data to detect trends in follower behaviours
- Reported findings and offered recommendations to improve client intake

Achievements

- Provided recommendations that led to a change of social media posting habits, resulting in an increased rate of new followers

Summer 2015/16;
Summer 2016/17

Vacation Research Student

Burnet Institute, Prahran

- Created compartmental models for epidemic control using R and Excel
- Wrote reports reviewing latest public health research for infectious diseases
- Communicated with co-authors to discuss methodology and research output

Achievements

- Contributed to writing a research article published June 2019
- Presented findings to a general audience spanning three countries at the International Conference of Undergraduate Research 2016

Education:

Jun 2016 – Nov 2018 **Bachelor of Science Advanced – Research (Honours)**

Monash University, Clayton

- Majors: Applied Mathematics and Statistics
- Weighted Average Mark: 86.00

Honours Thesis: Modelling the impact of network structure and control strategies on Hepatitis C Epidemics

2018 Leo Gleeson Prize

- Awarded to the most outstanding honours student in Applied Mathematics in 2018

Rene van der Borght Applied Mathematics Honours Scholarship

- Awarded to the highest-achieving student commencing the Applied Mathematics Honours program

AMSI Summer Vacation Research Scholarship (Summer 2017/18)

- Research Topic: Numerical Optimisation Applied to Monte Carlo Algorithms for Finance

Feb 2014 – Nov 2016 **Bachelor of Biomedical Science (Scholar Program)**

Monash University, Clayton

- Notable Units: Summer Research Project, Introduction to Bioinformatics, Partial Differential Equations, Applied Mathematical Modelling
- Weighted Average Mark: 83.25

Technical Skills/Attributes:

- Strong background in **Mathematics and Statistics,** including experience with mathematical modelling and implementation of statistical tests
- Proficient in **Python, MATLAB,** and **Mathematica**
- Previous experience to **STATA, SQL, Tableau** and **R**
- **Data analysis experience** – numerous research projects to synthesise public health data into meaningful research findings
- **Project management experience** –managed numerous research projects managing the research direction, organising meetings, and drafting reports

Publications:

2019 Wilkinson AL, Scott N, Tidhar T, Luong P, El-Hayek C, Wilson DP, Fairley CK, Zhang L, Leslie D, Roth N, Tee BK. Estimating the syphilis epidemic among gay, bisexual and other men who have sex with men in Australia following changes in HIV care and prevention. Sexual health. 2019 Jan 1;16(3):254-62.

Rumi SK, Luong P, Salim FD. Crime Rate Prediction with Region Risk and Movement Patterns. arXiv preprint arXiv:1908.02570. 2019 Jul 25.

2020 Ren Y, Phan M, Luong P, Wu J, Shell D, Barras CD, Kok HK, Burney M, Tahayori B, Seah HM, Maingard J. Geographic service delivery for endovascular clot retrieval: Using Discrete Event Simulation to Optimize Resources. World Neurosurgery. 2020 May 24.

Referees:

Available Upon Request