

# Philip Qing An Khor

DATA SCIENTIST

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## Summary

Data professional with a background in Economics and research experience in applied microeconometrics. Fluent in Python machine learning using scikit-learn and data wrangling with R using tidyverse packages.

## Work Experience and Training

### Data Scientist Intern

Minato-ku, Tokyo

GRID INC.

May 2019 - August 2019

- Trained real-time object detection and image segmentation models for use in agriculture using Yolov2, SSD and Mask R-CNN deep learning architectures with internally built framework.
- Delivered substantial improvement on the accuracy of number of trees counted, relative to previously built internal model
- Developed metrics to evaluate model to align with client objectives
- Developed pipeline consisting of Python command line interfaces to facilitate preprocessing, partitioning and post-processing of image and annotation data.

### Data Scientist Associate

Bangsar South, Kuala Lumpur

THE CENTER OF APPLIED DATA SCIENCE

July 2018 - May 2019

- Delivered over 100 hours in training sessions for Microsoft Excel, R for Analytics, Tableau, Statistics and Data Storytelling
- Developed training products in the areas of statistics, exploratory analysis, data visualization and machine learning using spreadsheets, R, Python and Tableau delivered through tools such as Jupyter Notebooks and R Markdown, focusing on commercial applications of data science
- Led development teams for Excel Analytics and Regression Modelling and Evaluation modules
- Core developer of introductory and intermediate Statistics and R for Analytics modules
- Worked with teams to develop and deliver training material for Natural Language Processing, Neural Networks, Data Visualisation with Tableau, A/B/n Testing and Time Series Analytics and Forecasting modules
- Developed internal conventions for material formatting and module code formats.

### Data Scientist Trainee

Bangsar South, Kuala Lumpur

ASEAN DATA ANALYTICS EXCHANGE

Feb 2018 - June 2018

- Data science finishing school for graduates covering R and Python programming modules, statistics, data preprocessing, machine learning, data visualisation with programming packages and interactive software, forecasting and natural language processing.

### Research Assistant: Economics Studies

George Town, Penang

PENANG INSTITUTE

Aug 2016 - Jan 2017

- Provided research assistance for the Penang Skilled Workforce Study project, which identifies skills shortages and skill gaps in key economic sectors in Penang.
- Scheduled and performed interviews with Human Resource, company executives and other governmental and non-governmental stakeholders.
- Liaised with state and federal government agencies to obtain secondary data.
- Emcee at the forum Budgeting Priorities in a Challenging Economic Environment (Nov 2016).

### Intern: Economics Studies

George Town, Penang

PENANG INSTITUTE

Dec 2015 - Jan 2016

- Contributed to the Penang Skilled Workforce Study, Penang Economic and Development Report 2015/2016 and the Institute's evaluation of the Trans-Pacific Partnership Agreement (TPPA).
- Obtained, sorted and analysed data across a wide array of sources.
- Liaised with government agencies to obtain data.
- Prepared reports and edited report text and formatting.

# Education

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## University of Wollongong

NSW, Australia

### BACHELOR OF COMMERCE (HONOURS)

2017

- Received the 2017 Honours Scholarship from the Faculty of Business based on academic performance, research and leadership potential.
- Undertook a research project as part of coursework for Advanced Macroeconomic Theory (Health and wealth: economic growth with endogenous health and human capital.)

## University of Wollongong

NSW, Australia

### BACHELOR OF COMMERCE (DEAN'S SCHOLAR)

2014-2016

- Admitted to the Dean's Scholar program in recognition of high academic achievement.
- Awarded the Business International Academic Merit Scholarship and the Undergraduate Excellence Scholarship in recognition of prior academic achievement.
- Awarded the Illawarra Regional Information Services John Steinke Prize in Economics (April 2017) for achieving the highest mark in 300-level Economics subjects in 2016.
- Awarded the Kenneth A. Blakey Prize (March 2015) for achieving the highest aggregate mark in Microeconomic Theory and Policy in 2014.
- Consistently placed in the Dean's Merit List (2014-2017), which ranks the top 5% of students in the Faculty of Business.

## Tunku Abdul Rahman University College

George Town, Penang

### DIPLOMA IN BUSINESS STUDIES

2012-2014

- Received the Merit Scholarship amounting to 100% of the tuition fees for the length of the program in recognition of prior academic performance.
- Awarded Book Prize for overall academic performance.

# Projects

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## Family background and child health: the role of socioeconomic status and skills

University of Wollongong

### HONOURS THESIS

2017

- Econometric analysis of the relationship between parental income and child health status in Australia using two large Australian longitudinal datasets.
- Used data from the Household, Income and Labour Dynamics in Australia Survey (HILDA) and the Longitudinal Study of Australian Children (LSAC) to replicate prior longitudinal results on the effect of parental income on child health.
- Developed a novel identification strategy to estimate the effect of parental resources on child health.

## Penang skilled workforce study: labour skills for growth and change

Penang Institute

Aug 2017 - Jan 2017

- Identification of skill gaps and skill shortages in major Penang economic sectors.
- Conducted and assisted with qualitative interviews with industry stakeholders and human resource personnel.
- Assisted in the development of questionnaires for data collection and development of strategies to improve response rates.
- Assisted in data analysis and the preparation of visualizations for the report.