WONG, Kwong-Yu

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EDUCATION

University of Washington, United States   Sep 2015 – Jun 2016, Sep 2017 – Jun 2022
Doctor of Philosophy in **Economics** (Electives: Dynamic Discrete Choice modelling, Machine learning)

The Chinese University of Hong Kong, Hong Kong   Aug 2013 – Jun 2015
Master of Philosophy in **Economics** (Research program)

Università Commerciale Luigi Bocconi, Italy (Exchange)   Jan 2009 – Jun 2009

Hong Kong University of Science and Technology, Hong Kong   Sep 2007 – Jun 2010
First Class Honours for Bachelor of Business Administration in **Global Business** and **Economics**

WRITING

Dynamic Competition of Real Estate Developers: Lesson on Counter-cycle Policy   Apr 2019 – Present
- Obtain unique transaction-level data by converting thousands of PDFs into CSVs via Python and satellite images via bash
- Estimate the dynamic competition with many firms utilizing Extended Oblivious Equilibrium in R
- Simulate, with parallel computing, the counterfactual market outcome given estimated strategy
- Find out a smaller scale cyclical policy induces a bigger impact than a bigger scale acyclical policy in dynamic competition

Productive Competition under Rationing: Evidence from Food Delivery in China   Aug 2017 – Present
- Estimate how competition alleviates rationing in peak hours considering multi-source information (e.g. geocoding, rainfall)
- Source geocoding information from API of Baidu map in R and hourly rainfall of two Shanghai airports
- Enrich the data of 500k+ transactions by crawling restaurant-specific features from a rating website using Python

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WORK/RESEARCH EXPERIENCE

Amazon, *Economist Intern*   Jul 2021 – Sept 2021
- Expanded analysis of delivery speed and membership sign-up/retention for Amazon Japan under COVID
- Collected raw data using SQL and AWS and modelled impacts over time through implementing Double Machine Learning
- Presented to business teams to address their concern on behavioural change and highlight potential needs as revealed in data

Amazon, *Economist Intern*   Jun 2020 – Aug 2020
- Introduced Dynamic Double Machine Learning methodology to handle high-dimensional dynamic problems in Python
- Identified top opportunity areas of all managers in Amazon for HR development using AWS cloud computing
- Expanded the coverage of area-specific advice to 30% of managers who only received non-specific advice previously

RedPeak Economics Consulting, *Consultant*   Jun 2019 – Sept 2019
- Prepared data-driven evidence from various perspectives to evaluate validity of arguments in litigations
- Consulted projects in various industries including Canned Tuna and Offshore Yen interbank market

The Chinese University of Hong Kong, *Research Assistant*   Jan 2017 – Aug 2017
- Derived theoretical models and prepared data and codes for researches (e.g. Retail Price Maintenance, U.S. motion picture)

Honors and Grants

Grover and Creta Ensley Fellowship in Economic Policy, University of Washington   2020

SKILLS AND INTERESTS

Languages: English (Fluent, IELTS: 7.5), Cantonese (Native) and Mandarin (Native)
Computer: R, Python, AWS, SQL, Git, Github, CLI, STATA, C++, Matlab, VBA for Excel, Bloomberg
Interests and others: Travelling and basketball