

# Han Loong Ng

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## SUMMARY

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Ph.D. candidate trained in economics with strong skills in applied econometrics, health economics, industrial organization and programming. Special expertise in the following areas:

- Data analysis, Causal Inference (Diff-in-Diff, RDD), Dynamic Discrete Choice Estimation

## EDUCATION

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### Pennsylvania State University

Ph.D. candidate in Economics, *Expected*: May 2024

*Primary fields: Applied microeconomics, Health Economics, Industrial Organization*

University Park, PA

August 2018 – Present

### London School of Economics and Political Science

Master of Science (Distinction), Econometrics and Mathematical Economics

London, UK

June 2016

### London School of Economics and Political Science

Bachelor of Science (First Class Honors), Econometrics and Mathematical Economics

London, UK

June 2015

## EXPERIENCE

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### National University of Singapore

*Research Assistant for Professor Davin Chor.*

Singapore

March 2017 - July 2018

- Designed and conducted a survey with Amazon Mechanical Turk to understand the effect of the 2016 US elections on US-China trade relations
- Compiled and translated archive census data of Chinese provinces
- Assisted in data sorting, econometric analysis and code management in STATA and Python

### Singapore Technological University

*Research Assistant for Professor Giovanni Ko.*

Singapore

July 2016 - Feb 2017

- Discovered price fixing in Singapore's Certificate of Entitlement (COE) auction system
- Designed and conducted experiments to study participant behavior under new auction system
- Presented main research finding to key stakeholders of Singapore's Land Transport Authority (LTA)

## SELECTED PROJECTS

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### Selection under risk adjustment: Evidence from U.S. deceased donor kidney transplant (Job Market Paper)

- Linked administrative data on 10 million patient-kidney offers with respective characteristics
- Used diff-in-diff framework to present causal estimates on the effects of Medicare's Condition of Participation on transplant center incentives and patient outcome
- Demonstrated that main driver of improvements in post-transplant death rate is centers selecting against high risk transplants instead of centers improving their quality of service

### Do transplant centers change strategies after poor performance? (Neil Wallace Award, Best 3<sup>rd</sup> year paper)

- Extracted a panel of transplant center activity from Organ Procurement and Transplantation Network website
- Used regression discontinuity design to estimate the effect of being flagged for poor performance
- Documented no change in transplant center treatment and admission strategy

## SKILLS

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- Computer Skills: Python, R, MATLAB, STATA, MS Office
- Techniques: causal inference (difference-in-differences, regression discontinuity), demand estimation (conditional logit), dynamic discrete choice (Nested Fixed Point, Conditional Choice Probabilities), Bayesian statistics (Gibb sampling, Markov Chain Monte Carlo), nonparametric methods (kernel method, local polynomial regression)

## LANGUAGE

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- Chinese (Native), English (Fluent), Bahasa (Native)