Hyungjin (Hyung-Jin) Kim

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CONTACT INFORMATION

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EDUCATION

- Ph.D. in Economics, University of Pittsburgh, August 2017-
  - Fields: Industrial Organization, Machine Learning, and Applied Econometrics
- M.S., Economics, Sungkyunkwan University, Seoul, South Korea, 2017
- B.A., Economics and Philosophy, Sungkyunkwan University, Seoul, South Korea, 2015

WORKING EXPERIENCE

- Economist Intern - Core AI, Amazon, Seattle, May 2022-August 2022.
  - Improve model libraries owned by Amazon based on its unique dataset and theories in Statistics and Econometrics in the Core-AI team.
  - Use econometric models to answer key business questions and make suggestions to the business partner team.
  - Do the causal inference by implementing modern machine learning tools including Double/Debiased Machine Learning, Causal Forest.

SKILLS

Programming	**Functional**	**Language**
Python, R, Julia,	Machine Learning (Sklearn)	English (Fluent)
Spark, Pyspark, SQL	Causal Inference	Korean (Native)
Stata, Matlab, LaTeX	Spatial Analysis (Geopandas)	

PUBLICATIONS

- Estimating Switching Costs for Telecommunications Services and Bundles (with Hyunchul Kim, Accepted at Applied Economics)
  - Develop a **Mixed Logit demand model** to estimate the consumers' switching costs over telecommunications services and bundles.
  - Collect and construct the large household data set with subscription choices for Mobile, Fixed Internet, and Fixed TV.
  - Research presented at 4^{th} Medial Panel Conference Presentation, 1st winner, Seoul, South Korea

WORKING PAPERS

- Double/Debiased Machine Learning for Static Games with Incomplete Information
  - Developed the **econometric model** to remove first stage machine learning bias of discrete choice models with the game setting
  - Used machine learning tools (**Lasso, Gradient Boosting, Random Forests**) to predict retail pharmacies' entry/exit decisions under the competitive environment
- The Welfare Effects of Regulating the Short-Term Rental Market (Airbnb)
  - Used **Difference-in-Difference** and structural model to identify the costs of regulation for Airbnb listings in San Francisco by using Python
  - Used **Geopandas** to analyze the spatial distribution of Airbnb listings over San Francisco

HONORS AND AWARDS

- Social Science Doctoral Dissertation Fellowships (Merit-based), 2019 - 2020
- Summer Research Fellowship, University of Pittsburgh, Summer 2019
- Arts and Sciences Fellowship, University of Pittsburgh, Fall 2017 - Spring 2018

CONFERENCE AND PRESENTATIONS

- Applied Microeconomics Colloquium, Carnegie Mellon University, Summer 2020
- Applied Microeconomics Seminar, University of Pittsburgh Econometrics Seminar, Spring & Fall 2019
- Econometrics Seminar, University of Pittsburgh, Fall 2020

TEACHING EXPERIENCE

- Instructor, University of Pittsburgh
  - Applied Econometrics (OMET scores 4.64/5), Summer 2021.
- Teaching Assistant, University of Pittsburgh
  - 1st-year Ph.D. Year Econometrics 2, Spring 2020.
  - Introduction to Microeconomics, Spring 2019, Fall 2021, Fall 2022
  - Introduction to Macroeconomics, Fall 2019, Summer 2020

OTHER PROFESSIONAL EXPERIENCE

- Mentor for 2^{nd} Year Student in Ph.D. Economics, University of Pittsburgh, 2019-2021
- Department Delegate, Arts & Sciences GSO, University of Pittsburgh, 2019-2020
- Research Assistant to Prof. Arie Beresteanu, University of Pittsburgh, Summer 2020
- Military Service: Sergeant, Administrative Specialist, South Korea, 2009-2011