

# Youngju Lee

ECONOMICS DEPARTMENT  
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## CONTACT INFORMATION

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## SUMMARY

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As a Ph.D. candidate, I study causal identification problems in applied microeconomics using modern econometric techniques and large microdata. My topics of expertise are labor, health, and environmental economics, with a particular focus on the spillover effects of government policy. I want to use my knowledge to pursue a career as an economist or data scientist upon completion of my Ph.D. in 2022.

## TECHNICAL SKILLS

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Methods: Linear Regression, Difference-in-Differences, Regression Discontinuity, Instrumental Variables, Propensity Score Matching, Synthetic Controls, Fixed Effects, Evaluation of Experiments, Logistic Regression, Bootstrapping, Ridge Regression, Lasso Regression, Support Vector Machines, Neural Networks, Random Forests, Boosting

Languages: Stata, Python, Matlab, SQL, HTML

## EDUCATION

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Ph.D. Candidate in Economics, University of California, San Diego (expected completion June 2022)

M.S., Economics, SungKyunKwan University, 4.4/4.5, 2017

B.S., Global Economics, SungKyunKwan University, Valedictorian, 4.43/4.5, 2016

## RESEARCH PROJECTS

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"Spatial Effects of Air Pollution on the Housing Market: Evidence from South Korea" (with Jiajun Lu, Accepted at Journal of Real Estate Research)

- Designed the equation of Spatial Two-stage Least Square model with considering the spillover effects
- Collected and merged the hundreds of millions of real estate transactions data with air pollution time series data
- Analyzed the main results through software Stata and visualized it by using ArcGIS

"Does single-sex schooling help or hurt labor market outcomes? Evidence from a natural experiment in South Korea" (with Nobuhiko Nakazawa, Submitted)

- Exploited natural experiment of single-sex schooling from Korean education policy for the labor market analysis
- Utilized Korean government panel data of young students that was obtained by request

"The impact of air pollution guideline (perception) changes on markets: pharmaceuticals and housing price" (Submitted)

- Evaluated how perception change of air pollution without the real pollution level change impacts on human behavior
- Used Python to collect pharmaceuticals big data and visualized the labeling impact by using ArcGIS
- Constructed the exogenous regressor of guideline change and econometrics framework in the spirit of DiD model

"Analyzing the Effects of Compensation Regulation Using Data from Glassdoor" (with Jeffrey Clemens)

- Used DiD regression method to find an impact of the minimum wage increase on welfare benefits change to employees
- Collected hundreds of millions of survey data from Glassdoor Salary and Welfare review, and analyzed it by Stata

"Where are you from? Heterogeneous impact of immigration on the Korean housing market" (with Eul Noh)

- Implemented Bartik instrument variable to find the varied impacts of immigration by nations on housing price
- Minimized the omitted variable bias by running the high dimensional building fixed effect IV regression

"Impact of Political Alignment on Tax Evasion: Evidence from South Korea"

- Studied whether political alignment impacts tax evasion in South Korea by using Korean panel data sets
- Built the tax evasion inference rate through multivariate regression model, and conducted event study regression

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## **FELLOWSHIPS, CERTIFICATIONS, AND AWARDS**

Certificate of Rady Micro-MBA (Summer program), University of California, San Diego, 2020

Graduate Summer Research Fellowship, UC San Diego, 2020, 2019, 2018 / Travel Grant, 2019

Ph.D. Scholarship, Kwanjeong Educational Foundation (Asian largest scholarship foundation), 2017

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## **PRESENTATIONS**

Singapore Economic Review Conference, 2019

Applied Economics Workshop at the University of California San Diego, 2019

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## **TEACHING**

Teaching Assistant, UC San Diego

- Principles of Microeconomics: 2017, Financial Markets: 2018, Econometrics (Sequence A, B, and C): 2019, 2020, 2021

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## **OTHER INFORMATION**

Citizenship: South Korea

Date of birth: November 3, 1991

Military Service: Sergeant, Representative soldier of the 3rd Flying Training Wing, 2011 to 2013