

## Pyung Kim

Ph.D. Candidate

School of Economic, Political and Policy Sciences  
University of Texas at Dallas, Green Hall, Office 3.318

[pyung.kim@utdallas.edu](mailto:pyung.kim@utdallas.edu) | <https://pyungkim.github.io> | [Google Scholar](#)

### EDUCATION

Ph.D. in Public Policy and Political Economy, University of Texas at Dallas	2021 – 2026
<ul style="list-style-type: none"> <li>• <b>Brian J.L. Berry Scholarship</b>, admission with the highest honor of the doctoral program</li> <li>• Dissertation: <i>The Long-Term Impacts of Neighborhoods on Children with Disabilities</i></li> </ul>	(expected)
M.S. in Geospatial Information Sciences (GIS), University of Texas at Dallas	2024 – 2025
<ul style="list-style-type: none"> <li>• Master's Project: <i>Bayesian Spatial-Temporal Analysis for Policy Evaluation</i></li> </ul>	(expected)
M.A. in Public Administration, Yonsei University, South Korea	2020
<ul style="list-style-type: none"> <li>• <b>Brain Korea 21 PLUS Scholarship</b>, National Research Foundation of Korea</li> </ul>	
B.A. in Public Administration, Ajou University, South Korea	2018
<ul style="list-style-type: none"> <li>• <b>The Next Century Humanities Scholarship</b> (national excellence), Deputy Prime Minister of Korea</li> <li>• Honors: <i>summa cum laude</i></li> </ul>	
Exchange student, Julius-Maximilian University of Würzburg, Germany	2016 – 2017

### PROFESSIONAL RESPONSIBILITIES

Geospatial Health Research Group, UT Dallas <i>Graduate Researcher</i>	2024 – present
Korea Social Science Data Archive, Seoul National University <i>Lecturer</i>	2023 – present
Korea Institute of Public Administration, a research organization under the Prime Minister's Office <i>Research Assistant</i>	2020

### RESEARCH INTERESTS

<b>Areas</b>	Neighborhood Effects, Health Policy, Public Economics, Social Insurance, Disability, Aging
<b>Methods</b>	Quasi-experiment, Causal Inference, Spatial Econometrics, GIS, Bayesian Modeling, Machine Learning

### PUBLICATIONS \* Corresponding author; † Student co-author (Percentile rankings are based on Journal Citation Reports.)

4. Kim, P. \*, Kim D., Scotch R., Jeong D. †, & Kowalske K. (2025). "[Geospatial analysis of community-level social and environmental barriers for adult burn injury survivors in North Texas.](#)" *Burns*, 51(5), 107512, (IF=3.2, Top 14.6% in Surgery)
3. Hong, S. \*, Jeong, D. †, & Kim, P. (2024). "[Have offender demographics changed since the COVID-19 Pandemic? Evidence from money mules in South Korea.](#)" *Journal of Criminal Justice*, 91, 102156. (IF=3.3, **Top 5.8% in Criminology**)
2. Maxwell, S. P. \*, Brooks, C., Kim, P., Kim, D., McNeely, C. L., & Thomas, K. (2023). "[Understanding habitats and environmental conditions of white-tailed deer population density and public health data to aid in assessing human tick-borne disease risk.](#)" *Microorganisms*, 11(4), 865. (IF=4.1, Top 30.1% in Microbiology)

1. **Kim, P.** & Bae, H. \* (2022). “[Do firms respond differently to the carbon pricing by industrial sector? How and why? A comparison between manufacturing and electricity generation sectors using firm-level panel data in Korea.](#)” *Energy Policy*, 162, 112773. (IF=9.3, Top 1.1% in Economics)

## UNDER REVIEW

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**Kim, P.**, Choi, S. †, Kim, D., & Lee, C. “Bayesian Spatial-Temporal Modeling for Policy Evaluation: Assessing the Impact of COVID-19 Social Distancing Policies Using Google Mobility”

**Kim, P.**, Jung, J. †, Min, C., Choi, H., Kim., D, Kumar, P. †, Hwang, J., & Song, D\*. “A Pilot Comparative Study on Personal Monitoring and Deep Learning-Based Mobile Alert Intervention for PM2.5-Related Asthma Exacerbations in Children”

**Kim, P.** \* “From Command-and-Control to Carbon Pricing: Estimating the Causal Effects on Firm Environmental Performance”

## WORKING PAPERS

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“Geospatial Analysis on Dental Health Service Access and Workforce Distribution in Kenya” (with Brenda Okumu, Caroline Kibosia, Dohyeong Kim, Arthur Kemoli, Linus Ndegwa, Osman Adullahi, & Hyewon Lee)

“The Geography of Community Integration for Burn Injury Survivors” (with Karen Kowalske, Dohyeong Kim, & Richard Scotch)

“The Impact of Local Knowledge of Social Security Benefits on Children with Disabilities” (sole author)

“Bayesian Spatial-Temporal Modeling for Policy Diffusion: Capturing Time, Space, and Their Interactions.” (sole author, accepted for inclusion in the [Special Issue on Policy Diffusion](#), *Policy Studies Journal*)

## EXTERNAL GRANTS

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### [Ongoing]

4. “The Capacity-Building Project for Primary Healthcare Workforce to Improve Maternal and Child Oral Health in Kilifi County, Kenya” (\$5,000; 2025 – 2026)
  - Funded by the Korea International Cooperation Agency (KOICA)
  - PI: Hyewon Lee, Seoul National University
  - Role: GIS Specialist (*field study in Kenya, October 2025, planned*)
3. “[What Is the Relationship Between Adolescent Neighborhood Environments and Long-Run Labor Market Outcomes for Children with Disabilities?](#)” (\$6,000; 2024 – 2025)
  - Funded by the Social Security Administration via UW-Madison Retirement and Disability Research Center
  - PI: **Pyung Kim**
2. “Spatial Distribution of Natural Radiation in Jeonnam Province” (\$160,000; 2024 – 2025)
  - Funded by the National Institute of Environmental Research of Korea
  - PI: Yeol Rho, Chonnam National Univ.; co-PI: Dohyeong Kim, UTD
  - Role: GIS Specialist
1. “[Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors](#)” (\$2,320,495 with UT Southwestern Medical Center; 2022 – 2026)
  - Funded by the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)
  - PI: Karen Kowalske, UTSW Medical Center; co-PI: Dohyeong Kim & Richard Scotch, UTD
  - Role: Data Analyst

**[Completed]**

5. "Spatial Distribution of Natural Radiation in Jeonbuk Province" (\$160,000; 2023 – 2024)
  - *Funded by the National Institute of Environmental Research of Korea*
  - *PI: Yeol Rho, Chonnam National Univ.; co-PI: Dohyeong Kim, UTD*
  - *Role: GIS Specialist*
4. "A Study on International Standards of Software Safety Assessment and Legal Arrangement of Domestic and Foreign Countries" (2020)
  - *Funded by the Korea Software Policy & Research Institute*
  - *PI: Hyunsuk Ryu, Korea Institute of Public Administration*
  - *Role: Research Assistant*
3. "An Analysis of the Local Government Social Welfare Budget" (2018)
  - *Funded by the Korea Ministry of Health and Welfare*
  - *PI: Jaejin Yang, Yonsei University*
  - *Role: Research Assistant*
2. "Analysis of national distrust structure of nuclear safety regulations and development of risk communication strategies for recovering trust" (2015 – 2016)
  - *Funded by the Korea Foundation of Nuclear Safety*
  - *PI: Seoyong Kim, Ajou University*
  - *Role: Research Assistant*
1. "Track and analyze the performance of technological development project for original research" (2015)
  - *Funded by the National Research Foundation of Korea*
  - *PI: Seoyong Kim, Ajou University*
  - *Role: Research Assistant*

**AWARDS AND HONORS****[External Awards]**

<a href="#">Public Administration Research Conference (PARC) Travel Award</a> , University of Central Florida	2025
<a href="#">JSIT Research Grant</a> , Social Security Administration via UW-Madison, \$6,000	2024
<a href="#">Junior Scholar Intensive Training (JSIT)</a> , Social Security Administration via UW-Madison	2024
President Travel Award for APPAM, Korean Association for Policy Studies	2023
Brain Korea 21 PLUS Scholarship, National Research Foundation of Korea, \$12,000	2018 – 2020
The Next Century Humanities Scholarship (National Excellence Scholarship), Deputy Prime Minister and Minister of Education of Korea, \$33,000	2015 – 2018

**[Internal Awards]**

<a href="#">GIS Pioneer Research Grant Award</a> , UT Dallas & Pioneer Natural Resources Partnership, \$1,000	2025
PPPE Graduate Student Travel Grant, UT Dallas, \$6,000	2023 – 2025
Keith Lankford Taylor Fellowship, UT Dallas, \$1,000	2023

<a href="#">Brian J.L. Berry Scholarship</a> , the highest honor of the program, <i>UT Dallas</i> , \$30,000	2021 –2026
UT Dallas Graduate Studies Scholarship, <i>UT Dallas</i> , \$97,200	2021 –2026
YUPA Graduate Studies Scholarship, <i>Yonsei University</i> , \$6,000	2018 –2020
<a href="#">AJOU-IN Award</a> ( <i>summa cum laude</i> ), <i>Ajou University</i>	2018
Research / Teaching Assistantship for Undergraduate Student, <i>Ajou University</i> , \$6,500	2015 –2018
Excellence in Undergraduate Research Project, <i>Ajou University</i> , \$200	2015
Dean's list (GPA: 4.5/4.5), <i>Ajou University</i>	2015
Merit-based Full Tuition Scholarship, <i>Ajou University</i>	2014
Dean's list (GPA: 4.5/4.5), <i>Ajou University</i>	2014

## DATA ACCESS PROPOSAL

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2. "The Impacts of School Neighborhoods on the Academic and Labor Market Outcomes of Students with Disabilities" (*status: approved by the Texas Higher Education Coordinating Board in 2024*)
  - *Student-level longitudinal data (1999 – 2023, N ≥ 5,000,000)*
  - *PI: Pyung Kim*
1. "Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors" (*status: approved by the NIDILRR in 2022*)
  - *Patient-level longitudinal data (1994 – 2022, N ≥ 25,000)*
  - *PI: Karen Kowalske, UTSW Medical Center; co-PI: Dohyeong Kim and Richard Scotch, UTD*

## TEACHING

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### [Lecturer]

Big Data and Machine Learning for Social Science (with R)

- *Korea Social Science Data Archive (graduate, online, Winter 2025-2026, planned)*

Methods of Quantitative Analysis in Social and Policy Sciences

- *UT Dallas (undergraduate, in person, Fall 2025, planned)*

GIS and Spatial Statistics (with Q GIS and R)

- *Korea Social Science Data Archive (graduate, online, Summer 2025, planned)*

Advanced GIS and Spatial Statistics (with Q GIS and R)

- *Korea Social Science Data Archive (graduate, online, Summer 2023)*
- *Rating: 9.84/10*

Introductory GIS and Spatial Statistics (with Q GIS and R)

- *Korea Social Science Data Archive (graduate, online, Summer 2023)*
- *Rating: 9.54/10*

### [Guest Lecture]

- Analysis of Variance, undergraduate statistics course (EPPS 2302), *UT Dallas*, Apr 2025
- Probability Distributions, undergraduate statistics course (EPPS 2302), *UT Dallas*, Feb 2025
- Introductory Calculus for Statistics, graduate statistics course (EPPS 7313), *UT Dallas*, Sep 2023

**[Teaching Assistant]**

UT Dallas

- Methods of Quantitative Analysis in the Social Sciences (undergraduate, Fall 2022; Spring 2023; Spring 2025)
- Civil Liberties (undergraduate, Fall 2024)
- Economics for Public Policy (graduate, Spring 2024)
- Global Health and Society (undergraduate, Fall 2023; Spring 2024)
- Descriptive and Inferential Statistics (graduate, Fall 2023)
- American National Government (undergraduate, Spring 2022; Fall 2021)

Korea Social Science Data Archive

- Big Data and Machine Learning for Social Science (graduate, Winter 2023-2024; Winter 2024-2025)
- Introductory and Advanced GIS and Spatial Statistics (graduate, Summer 2022)

Yonsei University, South Korea

- Quantitative Policy Analysis (undergraduate, Fall 2019)
- Forecasting Methods and Applications (graduate, Spring 2018)

Ajou University, South Korea

- Introduction to Korean Government (undergraduate, Fall 2017)
- Research Methods in Public Administration (undergraduate, Spring 2016)

**CONFERENCE PRESENTATIONS**

\* APHA (American Public Health Association); APPAM (Association for Public Policy Analysis and Management); ASPA (American Society for Public Administration); ACRM (American Congress of Rehabilitation Medicine); ASA (American Sociological Association); PARC (Public Administration Research Conference); SER (Society for Epidemiologic Research);

**2025** APHA (upcoming), APPAM (upcoming), ASA (upcoming), SER (upcoming), PARC

**2024** APPAM, ACRM, ASPA

**2023** APHA, APPAM, ASPA

**TECHNICAL SKILLS**

Statistical analysis (R, STATA, SPSS)

Geospatial analysis (R, Arc GIS, Quantum GIS, Geo Da, Tableau)

Machine learning (R)

**SERVICE****[Academic Service]**Peer Reviewer: *Scientific Reports (Nature Portfolio)*; *International Journal of Finance and Economics***[University Service]**

Secretary, Korean Student Association, UT Dallas

2023 – 2024

Vice President, Graduate Student Assembly in Public Administration, Yonsei University

2018 – 2019

Student Mentor, Office of Admissions, Ajou University

2014 – 2015