

## Pyung Kim

Ph.D. Candidate

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### ACADEMIC APPOINTMENTS

Postdoctoral Scholar <i>Center for Spatial Studies and Data Science, University of California Santa Barbara</i>	Jan 2026 –
Graduate Researcher <i>Spatial Health AI Research Partnership (SHARP), University of Texas at Dallas</i>	2024 – 2025
Adjunct Lecturer (Summer/Winter Methodology Workshops) <i>Korea Social Science Data Archive (KOSSDA), Seoul National University</i>	2023 – 2025
Research Assistant <i>Korea Institute of Public Administration (KIPA), National Research Council for Economics, Humanities and Social Sciences</i>	2020

### EDUCATION

Ph.D. in Public Policy and Political Economy <i>University of Texas at Dallas (Brian J.L. Berry Scholarship, Highest Honor)</i>	2025
M.S. in Geospatial Information Science <i>University of Texas at Dallas</i>	2025
M.A. in Public Administration <i>Yonsei University (Brain Korea 21 PLUS Scholarship, National Research Foundation)</i>	2020
B.A. in Public Administration <i>Ajou University (National Excellence Scholarship, Deputy Prime Minister of Korea)</i>	2018
Exchange Student <i>Julius-Maximilian University of Würzburg, Germany</i>	2016 – 2017

### RESEARCH AREAS

<b>Substantive</b>	Policy Evaluation, Public Health, Neighborhood Effects, AI for Policy & Health
<b>Methodological</b>	Spatial Data Science, Causal Inference, Machine Learning, Quasi-experiment

## EXTRAMURAL GRANTS

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### [Ongoing]

5. Interventional Study to Prevent Exacerbation of Atopic Dermatitis by Exposure to Particulate Matter 2024 – 2027
  - Role: Data Scientist
  - PI: Kangmo Ahn, *Samsung Medical Center*
  - *Korea Disease Control and Prevention Agency* (\$629,630)
4. [Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors](#) 2022 – 2026
  - Role: GIS Specialist
  - PI: Karen Kowalske, *UTSW Medical Center*; co-PI: Dohyeong Kim & Richard Scotch, *UTD*
  - *National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)*; \$2,320,495)
3. The Capacity-Building Project for Primary Healthcare Workforce to Improve Maternal and Child Oral Health in Kilifi County, Kenya 2025 – 2026
  - Role: GIS Specialist (**field study in Kenya, October 2025**)
  - PI: Hyewon Lee, *Seoul National University*
  - *Korea International Cooperation Agency* (\$440,000)
2. [What Is the Relationship Between Adolescent Neighborhood Environments and Long-Run Labor Market Outcomes for Children with Disabilities?](#) 2024 – 2025
  - **PI: Pyung Kim, UTD**
  - *Social Security Administration via Retirement and Disability Research Center at UW-Madison* (\$6,000)
1. Spatial Distribution of Natural Radiation in Jeonnam Province 2024 – 2025
  - Role: GIS Specialist
  - PI: Yeol Rho, *Chonnam National Univ.*; co-PI: Dohyeong Kim, *UTD*
  - *National Institute of Environmental Research of Korea* (\$160,000)

### [Completed]

5. Spatial Distribution of Natural Radiation in Jeonbuk Province 2023 – 2024
  - Role: GIS Specialist
  - PI: Yeol Rho, *Chonnam National Univ.*; co-PI: Dohyeong Kim, *UTD*
  - *National Institute of Environmental Research of Korea* (\$160,000)
4. A Study on International Standards of Software Safety Assessment and Legal Arrangement of Domestic and Foreign Countries 2020
  - Role: Research Assistant
  - PI: Hyunsuk Ryu, *Korea Institute of Public Administration*
  - *Korea Software Policy & Research Institute*

3. An Analysis of the Local Government Social Welfare Budget 2018
  - Role: Research Assistant
  - PI: Jaejin Yang, *Yonsei University*
  - *Korea Ministry of Health and Welfare*
2. Analysis of National Distrust Structure of Nuclear Safety Regulations and Development of Risk Communication Strategies for Recovering Trust 2015 – 2016
  - Role: Research Assistant
  - PI: Seoyong Kim, *Ajou University*
  - *Korea Foundation of Nuclear Safety*
1. Track and Analyze the Performance of Technological Development Project for Original Research 2015
  - Role: Research Assistant
  - PI: Seoyong Kim, *Ajou University*
  - *National Research Foundation of Korea*

## **PUBLICATIONS** \* Corresponding author, † Student co-author (Percentiles are based on Journal Citation Reports)

### [Peer-reviewed Publications]

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)

### [Brief Report]

1. **Kim, P.**, Maxwell, S., Parijat, N., Kim, D., & McNeely, C. L. (2024). “Targeted Tick-Borne Disease Recognition: Assessing Risk for Improved Public Health.” *Healthcare*. 12 (10). 984

## UNDER REVIEW

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**Kim, P.**, Choi, S.<sup>†</sup>, Kim, D., & Lee, C.\* “[Bayesian Spatial-Temporal Modeling for Policy Evaluation: Assessing the Impact of COVID-19 Social Distancing Policies Using Google Mobility Data](#)” (Available at SSRN)

**Kim, P.**\* “[From Command-and-Control to Carbon Pricing: Estimating the Causal Effects on Firm Environmental Performance](#)” (Available at SSRN)

**Kim, P.**, Jung, J.<sup>†</sup>, Min, C., Choi, H., Kim., D, Kumar, P.<sup>†</sup>, 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.**\*, Hahm, H.<sup>†</sup>, Kim, D. & Kowalske, K., “Individual and County-Level Factors Shaping Community Reintegration Among Burn Survivors: An Exploratory Machine Learning Approach”

Kim, H.<sup>†</sup>, **Kim, P.**\*, “Modeling Policy Diffusion Across Space and Time: A Bayesian Spatial–Temporal Approach”

## 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, Osman Adullahi, & Hyewon Lee)

“The Long-Term Impacts of Neighborhood on Educational Outcomes: Heterogeneous Effects by Disability Status” (sole author)

## AWARDS AND HONORS

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### [External Awards]

Public Administration Research Conference Travel Award, <i>University of Central Florida</i>	2025
<a href="#">JSIT Research Grant</a> , <i>Social Security Administration via UW-Madison</i>	2024
<a href="#">Junior Scholar Intensive Training (JSIT)</a> , <i>Social Security Administration via UW-Madison</i>	2024
President Travel Award for APPAM, <i>Korean Association for Policy Studies</i>	2023
Brain Korea 21 PLUS Scholarship, <i>National Research Foundation</i>	2018 – 2020
The Next Century Humanities Scholarship (National Excellence Scholarship), <i>awarded by the Deputy Prime Minister; funded by the Korea Student Aid Foundation</i>	2015 – 2018

### [Internal Awards]

<a href="#">GIS Pioneer Research Grant Award</a> , <i>UT Dallas</i>	2025
PPPE Graduate Student Travel Grant, <i>UT Dallas</i>	2023 – 2025

Keith Lankford Taylor Fellowship, <i>UT Dallas</i>	2023
<a href="#">Brian J.L. Berry Scholarship</a> (Highest Honor), <i>UT Dallas</i>	2021 – 2025
UT Dallas Graduate Studies Scholarship, <i>UT Dallas</i>	2021 – 2025
YUPA Graduate Studies Scholarship, <i>Yonsei University</i>	2018 – 2020
<a href="#">President's Award for Outstanding Graduate</a> , <i>Ajou University</i>	2018
Teaching Assistantship for Undergraduate Student, <i>Ajou University</i>	2015 – 2018
Excellence in Undergraduate Research Project, <i>Ajou University</i>	2015
Dean's list, <i>Ajou University</i>	2015
Merit-based Full Tuition Scholarship, <i>Ajou University</i>	2014
Dean's list, <i>Ajou University</i>	2014

## DATA ACCESS PROPOSAL

2. The Impacts of School Neighborhoods on the Academic and Labor Market Outcomes of Students with Disabilities	2024
<ul style="list-style-type: none"> <li>• <i>PI: Pyung Kim</i></li> <li>• <i>Student-level longitudinal data (1999 – 2023, <math>N \geq 10</math> million)</i></li> <li>• <i>Texas Schools Project</i></li> </ul>	
1. Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors	2022
<ul style="list-style-type: none"> <li>• <i>PI: Karen Kowalske, UTSW Medical Center; co-PI: Dohyeong Kim and Richard Scotch, UTD</i></li> <li>• <i>Patient-level longitudinal data (1994 – 2022, <math>N \geq 7,000</math>)</i></li> <li>• <i>National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)</i></li> </ul>	

## TEACHING

<u>[Certificate]</u>	
Graduate Teaching Certificate, <i>UT Dallas</i>	2025
<u>[Co-teaching]</u>	
Big Data and Machine Learning for Social Science (with R)	Winter 2026 (planned)
<ul style="list-style-type: none"> <li>• <i>Korea Social Science Data Archive</i> (graduate, co-instructor: Dohyeong Kim)</li> </ul>	
GIS and Spatial Statistics (with QGIS, GeoDa, and R)	Summer 2025
<ul style="list-style-type: none"> <li>• <i>Korea Social Science Data Archive</i> (graduate, co-instructor: Dohyeong Kim)</li> <li>• <i>Rating: 9.91/10</i></li> </ul>	
Advanced GIS and Spatial Statistics (with R)	Summer 2023
<ul style="list-style-type: none"> <li>• <i>Korea Social Science Data Archive</i> (graduate, co-instructor: Dohyeong Kim)</li> <li>• <i>Rating: 9.84/10</i></li> </ul>	

## Introductory GIS and Spatial Statistics (with QGIS, GeoDa, and STATA)

Summer 2023

- *Korea Social Science Data Archive* (graduate, co-instructor: Dohyeong Kim)
- *Rating: 9.54/10*

[Guest Lecture]

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

[Teaching Assistant]*UT Dallas*

- Civil Liberties (undergraduate) Fall 2024; Fall 2025
- Methods of Quantitative Analysis in the Social and Policy Sciences (undergraduate) Fall 2022; Spring 2023; Spring 2025
- 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 2024; 2025
- Introductory and Advanced GIS and Spatial Statistics (graduate) Summer 2022

*Yonsei University*

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

*Ajou University*

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

**INVITED TALKS**

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- “Geospatial analysis of oral health service gaps and integration strategies for maternal and child health in Kilifi, Kenya”, *Kilifi Department of Health in Kilifi County, Kenya* Oct 2025

**CONFERENCE PRESENTATIONS**


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

2025 APPAM, APHA, ASA, SER, PARC

2024 APPAM, ACRM, ASPA

2023 APPAM, APHA, ASPA

## TECHNICAL SKILLS

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Statistical analysis (R, STATA, SPSS)

Geospatial analysis (R, Arc GIS, QGIS, GeoDa, Tableau)

Machine learning (R)

## SERVICE

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### [Peer Reviewer]

*Scientific Reports (Nature Portfolio); Energy Policy; International Journal of Finance and Economics; Policy Studies Journal; PLOS ONE*

### [University Service]

Secretary, Korean Student Association, UT Dallas	2023 – 2024
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Vice President, Graduate Student Assembly in Public Administration, Yonsei University	2018 – 2019
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Student Mentor, Office of Admissions, Ajou University	2014 – 2015
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