

## Pyung Kim

Ph.D. Candidate

School of Economic, Political and Policy Sciences

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### ACADEMIC APPOINTMENTS

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

### EDUCATION

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

### RESEARCH AREAS

<b>Substantive</b>	Health Policy, Public Economics, Disability, Neighborhood Effects, Social Capital
<b>Methodological</b>	GIS, Spatial Data Science, Causal Inference, Quasi-experiment, Machine Learning

**PUBLICATIONS** \* Corresponding author; † Student co-author

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4. **Kim, P.**, Choi, S.<sup>†</sup>, Kim, D., & Lee, C.<sup>\*</sup>. (Forthcoming). “Bayesian spatio-temporal modeling for policy evaluation: Sensitivity of policy effect estimates in the context of COVID-19 stay-at-home orders.” *PLOS One*. ([Available at SSRN](#))
3. **Kim, P.**<sup>\*</sup>, Kim D., Scotch R., Jeong D.<sup>†</sup>, & Kowalske K. (2025). “Geospatial analysis of community-level social and environmental barriers for adult burn injury survivors in North Texas.” *Burns*, 51(5), 107512.
2. Hong, S.<sup>\*</sup>, Jeong, D.<sup>†</sup>, & **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.
1. **Kim, P.** & Bae, H.<sup>\*</sup> (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

**UNDER REVIEW**

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

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

**Kim, P.**<sup>\*</sup>, 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, P.**, Jung, J.<sup>†</sup>, Min, C., Choi, H., Kim., D, Kumar, P.<sup>†</sup>, Hwang, J., & Song, D.<sup>\*</sup>. “mHealth Intervention Integrating Personal PM2.5 Monitoring and Deep Learning to Reduce Pediatric Asthma Exacerbations: A Pilot Study”

**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 Impact of Medicaid Expansion on Cancer Outcomes: Evidence on the Moderating Role of Oncology Care Access” (with Kristine Hahm)

“Long-Term Effects of Neighborhoods on Educational Attainment by Disability Status” (sole author)

## 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*

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| 3. An Analysis of the Local Government Social Welfare Budget   | 2018        |
| <ul style="list-style-type: none"> <li>• Role: Research Assistant</li> <li>• PI: Jaejin Yang, <i>Yonsei University</i></li> <li>• <i>Korea Ministry of Health and Welfare</i></li> </ul> |             |
| 2. Analysis of National Distrust Structure of Nuclear Safety Regulations and Development of Risk Communication Strategies for Recovering Trust   | 2015 – 2016 |
| <ul style="list-style-type: none"> <li>• Role: Research Assistant</li> <li>• PI: Seoyong Kim, <i>Ajou University</i></li> <li>• <i>Korea Foundation of Nuclear Safety</i></li> </ul>     |             |
| 1. Track and Analyze the Performance of Technological Development Project for Original Research  | 2015        |
| <ul style="list-style-type: none"> <li>• Role: Research Assistant</li> <li>• PI: Seoyong Kim, <i>Ajou University</i></li> <li>• <i>National Research Foundation of Korea</i></li> </ul>  |             |

## AWARDS AND HONORS

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### [External Awards]

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|---|-------------|
| 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),<br><i>awarded by the Deputy Prime Minister; funded by the Korea Student Aid Foundation</i> | 2015 – 2018 |

### [Internal Awards]

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| <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="#"><u>President's Award for Outstanding Graduate</u></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

## TEACHING

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### [Certificate]

Graduate Teaching Certificate, <i>UT Dallas</i>	2025
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### [Co-instructor]

Big Data and Machine Learning for Social Science (with R)	Winter 2026 (planned)
• <i>Korea Social Science Data Archive</i> (graduate)	

GIS and Spatial Statistics (with QGIS, GeoDa, and R)	Summer 2025
• <i>Korea Social Science Data Archive</i> (graduate)	
• Rating: 9.91/10	

Advanced GIS and Spatial Statistics (with R)	Summer 2023
• <i>Korea Social Science Data Archive</i> (graduate)	
• Rating: 9.84/10	

Introductory GIS and Spatial Statistics (with QGIS, GeoDa, and STATA)	Summer 2023
• <i>Korea Social Science Data Archive</i> (graduate)	
• Rating: 9.54/10	

### [Guest Lecture]

• Analysis of Variance, undergraduate statistics course (EPPS 2302), <i>UT Dallas</i>	April 2025
• Probability Distributions, undergraduate statistics course (EPPS 2302), <i>UT Dallas</i>	Feb 2025
• Introductory Calculus, graduate statistics course (EPPS 7313), <i>UT Dallas</i>	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)
- Introductory and Advanced GIS and Spatial Statistics (graduate)

Winter 2024; 2025  
Summer 2022

*Yonsei University*

- Quantitative Policy Analysis (undergraduate)
- Forecasting Methods and Applications (graduate)

Fall 2019  
Spring 2018

*Ajou University*

- Introduction to Korean Government (undergraduate)
- Research Methods in Public Administration (undergraduate)

Fall 2017  
Spring 2016

**INVITED TALKS**

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- “Using GIS to Improve Rural Health Service Planning: Lessons from Kilifi County, 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)

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

Machine learning (R)

**DATA ACCESS PROPOSAL**

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2. The Impacts of School Neighborhoods on the Academic and Labor Market Outcomes of Students with Disabilities 2024

- *PI: Pyung Kim*
- *Student-level longitudinal data (1999 – 2023,  $N \geq 5,000,000$ )*
- *Texas Schools Project*

1. Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors 2022

- *PI: Karen Kowalske, UTSW Medical Center, UTD*
- *Patient-level longitudinal data (1994 – 2022,  $N \geq 25,000$ )*
- *National Institute on Disability, Independent Living, and Rehabilitation Research*

**SERVICE**

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[Peer Reviewer]

*Policy Studies Journal; Scientific Reports; Energy Policy; Energy Economics; International Journal of Finance and Economics; PLOS ONE*

[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