

## Pyung Kim

Postdoctoral Scholar  
Center for Spatial Studies and Data Science  
Department of Geography  
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### ACADEMIC APPOINTMENTS

Postdoctoral Scholar <i>Center for Spatial Studies and Data Science, Department of Geography, University of California, Santa Barbara</i>	Jan 2026 –
Graduate Researcher <i>Spatial Health AI Research Partnership (SHARP), The 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>The University of Texas at Dallas (Brian J.L. Berry Scholarship, Highest Honor)</i> • Fields: Health Policy, Social Policy, Environmental Policy • Dissertation: <i>Long-Term Effects of Neighborhoods on Educational Attainment by Disability Status</i>	2025
M.S. in Geospatial Information Science <i>The 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>	Public Health, Policy Evaluation, Neighborhood Effects, Disability, Aging
<b>Methodological</b>	GIS, Spatial Data Science, Causal Inference, Quasi-experiment, Machine Learning

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

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5. **Kim, P.**, Choi, S.<sup>†</sup>, Kim, D., & Lee, C.\*. (2026). "Bayesian spatio-temporal modeling for policy evaluation: Sensitivity of policy effect estimates in the context of COVID-19 stay-at-home orders." *PLoS One* 21(2): e0339196. (<https://doi.org/10.1371/journal.pone.0339196>).
4. **Kim, P.**\*, 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. (<https://doi.org/10.1016/j.burns.2025.107512>).
3. Hong, S.\* , 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. (<https://doi.org/10.1016/j.jcrimjus.2024.102156>).
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. (<https://pubmed.ncbi.nlm.nih.gov/37110288/>).
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 (<https://doi.org/10.1016/j.enpol.2021.112773>).

**UNDER REVIEW**

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

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

**Kim, P.**, Jung, J.<sup>†</sup>, Min, C., Choi, H., Kim., D, Kumar, P.<sup>†</sup>, Hwang, J., & Song, D.\*. "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)

"Spatial Mismatch and Retirement Transitions: Evidence from Unexpected Residential Relocation" (with Peter Kedron)

**GRANTS** *Non-U.S. awards are reported in USD using award-date exchange rates, rounded to the nearest dollar.*


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*I have participated in awarded grants totaling \$3,717,126, of which my recognized contribution was \$33,800.*

[Under Review]

1. Spatial Mismatch and Retirement Transitions: Evidence from Unexpected Residential Relocation 2026
  - Role: Key Personnel
  - PI: Peter Kedron, UC Santa Barbara
  - *Alfred P. Sloan Foundation via the University of Michigan* (\$50,000)

[PI / Co-PI]

1. [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; Recognition: \$6,000)
2. The Geography of Disability Inclusion: The Long-Term Impacts of Neighborhoods on Children with Disabilities in Texas 2025
  - **PI: Pyung Kim, UTD**
  - *UT Dallas & [Pioneer Natural Resources](#)* (\$1,000; Recognition: \$1,000)

[Key Personnel]

4. 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; Recognition: \$4,600)
3. [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* (\$2,320,495; Recognition: \$12,600)
2. 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; Recognition: \$5,600)
1. Spatial Distribution of Natural Radiation in Jeonbuk and Jeonnam Provinces 2023 – 2025
  - Role: GIS Specialist
  - PI: Yeol Rho, *Chonnam National Univ.*; co-PI: Dohyeong Kim, *UTD*
  - *National Institute of Environmental Research of Korea* (\$320,000; Recognition: \$4,000)

## 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]

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

## INVITED TALKS

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"Long-Term Effects of Neighborhoods on Educational Attainment by Disability Status", <i>Department of Geography, University of California, Santa Barbara, USA</i>	Feb 2026
"Quasi-Experimental Mover Designs for Identifying Neighborhood Effects", <i>Department of Geography, University of California, Santa Barbara, USA</i>	Feb 2026
"Using GIS to Improve Rural Health Service Planning: Lessons from Kilifi County, Kenya", <i>Kilifi Department of Health in Kilifi County, Kenya</i>	Oct 2025

## TEACHING

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### [Certificate]

Graduate Teaching Certificate, *UT Dallas* 2025

### [Co-Instructor]

Machine Learning and Deep Learning for Social Science (with R) Winter 2026  
 • *Korea Social Science Data Archive* (graduate) (planned)

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

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

Introductory GIS and Spatial Statistics (with QGIS, GeoDa, and STATA) Summer 2023  
 • *Korea Social Science Data Archive* (graduate)  
 • *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

## 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); AAG (Association of American Geographers)

2026 AAG (planned)  
 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 / Deep Learning (R)

## DATA ACCESS

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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