Pyung Kim

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

Postdoctoral Scholar   Jan 2026 –
Center for Spatial Studies and Data Science, Department of Geography,
University of California, Santa Barbara

Graduate Researcher   2024 – 2025
Spatial Health AI Research Partnership (SHARP), The University of Texas at Dallas

Adjunct Lecturer (Summer/Winter Methodology Workshops)   2023 – 2025
Korea Social Science Data Archive (KOSSDA), Seoul National University

Research Assistant   2020
Korea Institute of Public Administration (KIPA), National Research Council for
Economics, Humanities and Social Sciences

EDUCATION

Ph.D. in Public Policy and Political Economy   2025
The University of Texas at Dallas (Brian J.L. Berry Scholarship, Highest Honor)
- Fields: Health Policy, Social Policy, Environmental Policy
- Dissertation: *Long-Term Effects of Neighborhoods on Educational Attainment by Disability Status*

M.S. in Geospatial Information Science   2025
The University of Texas at Dallas

M.A. in Public Administration   2020
Yonsei University (Brain Korea 21 PLUS Scholarship, National Research Foundation)

B.A. in Public Administration   2018
Ajou University (National Excellence Scholarship, Deputy Prime Minister of Korea)

Exchange Student   2016 – 2017
Julius-Maximilian University of Würzburg, Germany

RESEARCH AREAS

Substantive	Health Policy, Environmental Health, Neighborhood Effects, Disability, Aging
Methodological	GIS, Spatial Data Science, Causal Inference, Quasi-experiment, Machine Learning

PUBLICATIONS * *Corresponding author,* † *Student co-author*

4. **Kim, P.**, Choi, S.†, Kim, D., & Lee, C*. (*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. *,** 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.

2. 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.

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

UNDER REVIEW

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

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

Kim, P. *, Hahm, H. †, Kim, D. & Kowalske, K., "Individual and County-Level Factors Shaping Community Reintegration Among Burn Survivors: An Exploratory Machine Learning Approach"

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

WORKING PAPERS

"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.

[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)*

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)*

[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)

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)

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)

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)*

AWARDS AND HONORS

[External Awards]

Public Administration Research Conference Travel Award, *University of Central Florida*	2025
JSIT Research Grant, *Social Security Administration via UW-Madison*	2024
Junior Scholar Intensive Training (JSIT), *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*	2018 – 2020
The Next Century Humanities Scholarship (National Excellence Scholarship), *awarded by the Deputy Prime Minister; funded by the Korea Student Aid Foundation*	2015 – 2018

[Internal Awards]

PPPE Graduate Student Travel Grant, *UT Dallas*	2023 – 2025
Keith Lankford Taylor Fellowship, *UT Dallas*	2023
Brian J.L. Berry Scholarship (Highest Honor), *UT Dallas*	2021 – 2025
UT Dallas Graduate Studies Scholarship, *UT Dalla*	2021 – 2025
YUPA Graduate Studies Scholarship, *Yonsei University*	2018 – 2020
President's Award for Outstanding Graduate, *Ajou University*	2018
Teaching Assistantship for Undergraduate Student, *Ajou University*	2015 – 2018
Excellence in Undergraduate Research Project, *Ajou University*	2015
Dean's list, *Ajou University*	2015
Merit-based Full Tuition Scholarship, *Ajou University*	2014
Dean's list, *Ajou University*	2014

INVITED TALKS

"Using GIS to Improve Rural Health Service Planning: Lessons from Kilifi County, Kenya", *Kilifi Department of Health in Kilifi County, Kenya*	Oct 2025

TEACHING

[Certificate]

Gradate Teaching Certificate, *UT Dallas*	2025

[Co-Instructor]

Machine Learning and Deep Learning for Social Science (with R) • *Korea Social Science Data Archive* (graduate)	Winter 2026 (planned)
GIS and Spatial Statistics (with QGIS, GeoDa, and R) • *Korea Social Science Data Archive* (graduate) • *Rating: 9.91/10*	Summer 2025
Advanced GIS and Spatial Statistics (with R) • *Korea Social Science Data Archive* (graduate • *Rating: 9.84/10*	Summer 2023
Introductory GIS and Spatial Statistics (with QGIS, GeoDa, and STATA) • *Korea Social Science Data Archive* (graduate) • *Rating: 9.54/10*	Summer 2023

[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

[*] 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
2025   APPAM, APHA, ASA, SER, PARC
2024   APPAM, ACRM, ASPA
2023   APPAM, APHA, ASPA

TECHNICAL SKILLS

Statistical analysis (R, STATA)
Geospatial analysis (R, Arc GIS, QGIS, GeoDa, Tableau)
Machine learning (R Keras)

DATA ACCESS

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

[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