Pyung Kim

Postdoctoral Scholar

Center for Spatial Studies and Data Science
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APPOINTMENT

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

EDUCATION

Ph.D. in Public Policy and Political Economy, University of Texas at Dallas 2025
Brian J.L. Berry Scholar (Highest Honor)
Dissertation: *Long-Term Effects of Neighborhoods on Educational Attainment by Disability Status*
Committee: Dohyeong Kim (Chair), Richard Scotch (Co-Chair), Eugenia Gorina, Elías Cisneros

M.S. in Geospatial Information Sciences, University of Texas at Dallas 2025

M.A. in Public Administration, Yonsei University 2020
Thesis: *The Effect of Carbon Pricing: Evidence from the Korean Emission Trading Scheme*
Committee: Hyunhoe Bae (Chair), Tae Joon Lah, Sounman Hong

B.A. in Public Administration, Ajou University 2018
University President's Award for Outstanding Graduate
National Excellence Scholarship of Korea

RESEARCH AREAS

Fields Health Policy, Social Policy, Education Policy, Climate Policy
Methods Data Science, Machine Learning, Spatial Statistics, Causal Inference

PUBLICATIONS *JCR: Journal Citation Reports, * Corresponding author*

7. **Kim, P.** * (*conditionally accepted*). Does Carbon Pricing Outperform Command-and-Control Regulation? Firm-Level Evidence from Korea's Dual Regulatory Framework. *Climate Policy*. [IF=5.5, JCR Top 5%; Preprint: http://dx.doi.org/10.2139/ssrn.7590183]

6. **Kim, P.** *, Hahm, K., Kim, D., & Kowalske, K. (2026). Regional disparities in community reintegration after burn injury: A multi-site comparison of clinical and structural factors. *Burns*, 52(9), 108190. [IF=2.6, JCR Q2]

5. **Kim, P.**, Choi, S., 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. [IF=2.8, JCR Q2]

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=2.6, JCR Q2]

3. **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). [IF=3.4, JCR Q1]

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. [IF=2.3, JCR Q1]

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, JCR Top 2%]

UNDER REVIEW

"Growing Up in Disability-Dense School Districts: Long-Term Impacts on Educational Attainment" (sole author), **R&R** at *Educational Evaluation and Policy Analysis*. [IF=2.9]

"A Geography of Administrative Burden: Accessibility to Social Security Field Offices and Benefit Receipt in the U.S." (first author), **R&R** at *Applied Spatial Analysis and Policy*. [IF=3.1]

"Neighborhood Effects on Educational Attainment by Disability Status" (sole author)

"Mobile Health Intervention Integrating Personal PM2.5 Monitoring and Deep Learning to Reduce Pediatric Asthma Exacerbations: A Pilot Study" (first author)

"Spatial Heterogeneity in the Determinants of Antibiotic Prescribing Among Medicare Beneficiaries" (co-author)

"Geographic Accessibility to Preventive Maternal and Child Oral Health in Kenya" (first author)

WORK IN PROGRESS

"Where Does the Evidence Come From? The Missing Geographic Footprint of the What Works Clearinghouse" (with Peter Kedron)

"Who Moves Where? Evidence from Three Decades of Texas Student Records" (with Peter Kedron)

"A Parsimonious Approach to Gerrymandering Analysis" (with Joseph Holler & Peter Kedron)

"Spatial Turn in Causal Inference" (with Lixi Xu, Lei Song, & Peter Kedron)

"Heterogeneous Effects of Medicaid Expansion on Cancer Mortality" (with Kristine Hahm)

GRANTS *Non-U.S. awards are reported in USD using award-date exchange rates.*

[Principal Investigator]

1. What Is the Relationship Between Adolescent Neighborhood Environments and Long-Run Labor Market Outcomes for Children with Disabilities? (#JSIT24-04) 2024 – 2025
   - PI: **Pyung Kim**
   - *Social Security Administration via UW-Madison RDRC* ($6,000)

[Key Personnel]

4. North Texas Burn Rehabilitation Model System (#90DPBU0006) 2022 – 2026
   - Role: Data Scientist
   - 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)

3. Interventional Study to Prevent Exacerbation of Atopic Dermatitis by Exposure to Particulate Matter 2025 – 2026
   - Role: Data Scientist
   - PI: Kangmo Ahn, *Samsung Medical Center*
   - *Korea Disease Control and Prevention Agency* ($629,630)

2. The Capacity-Building Project for Primary Healthcare Workforce to Improve Maternal and Child Oral Health in Kilifi County, Kenya (field study in Kenya) 2025 – 2026
   - Role: GIS Specialist
   - 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 University*; Co-PI: Dohyeong Kim, *UTD*
   - *National Institute of Environmental Research of Korea* ($320,000)

AWARDS AND HONORS

GIS Pioneer Research Scholarship, *UT Dallas & Pioneer Natural Resources* 2025

Research Competition Award, *Social Security Administration via UW-Madison RDRC* 2024

Junior Scholar Intensive Training, *Social Security Administration via UW-Madison RDRC* 2024

Keith Lankford Taylor Fellowship, *UT Dallas* 2023

Brian J.L. Berry Scholarship (Highest Honor), *UT Dallas* 2021 – 2025

President's Award for Outstanding Graduate, *Ajou University* 2018

The Next Century Humanities Scholarship (National Excellence Scholarship), 2015 – 2018
awarded by the Minister of Education; funded by the Korea Student Aid Foundation

TEACHING

[Co-Instructor]
Korea Social Science Data Archive, Seoul National University (with Dohyeong Kim, UT Dallas)

- Machine Learning and Deep Learning for Social Science (Rating: 9.64/10) Winter 2026
- Spatial Statistical Analysis, Advanced (Rating: 9.91/10) Summer 2025
- Spatial Statistical Analysis, Introductory (Rating: 9.91/10) Summer 2025
- Spatial Statistical Analysis, Advanced (Rating: 9.84/10) Summer 2023
- Spatial Statistical Analysis, Introductory and Advanced (Rating: 9.54/10) Summer 2023

[Guest Lecture]

- Quasi-Experimental Mover Design, Peter Kedron's Lab, UC Santa Barbara Feb 2026
- 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, graduate statistics course (EPPS 7313), UT Dallas Sep 2023

CONFERENCE PRESENTATIONS

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

2026 APPAM (planned)
2025 APPAM, APHA, ASA, SER
2024 APPAM, ACRM, ASPA
2023 APPAM, APHA, ASPA

SERVICE

[Professional Service]
2026 APPAM Program Committee Review

[Ad Hoc Reviewer]
Policy Studies Journal (PSJ); Energy Economics; Energy Policy; Scientific Reports; International Journal of Finance and Economics