Pyung Kim

Ph.D. Candidate
School of Economic, Political and Policy Sciences
University of Texas at Dallas, Green Hall, Office 3.318

pyung.kim@utdallas.edu | https://pyungkim.github.io | Google Scholar

PROFESSIONAL RESPONSIBILITIES

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

Graduate Researcher   2024 – 2025
Spatial Health AI Research Partnership (SHARP), 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 (under the Prime Minister's Office)

EDUCATION

Ph.D. in Public Policy and Political Economy   2025
University of Texas at Dallas (Brian J.L. Berry Scholarship, Highest Honor)   (*expected*)

M.S. in Geospatial Information Science   2025
University of Texas at Dallas   (*expected*)

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

B.A., *summa cum laude* 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 INTERESTS

Areas   Policy Evaluation, Spatial Causal Inference, Neighborhood Effects, AI for Public Policy
Methods   Spatial Data Science, Spatial Econometrics, Machine Learning, Quasi-experiment

EXTRAMURAL GRANTS

[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   2015 – 2016
   Development of Risk Communication Strategies for Recovering Trust
   - Role: Research Assistant
   - PI: Seoyong Kim, *Ajou University*
   - *Korea Foundation of Nuclear Safety*

1. Track and Analyze the Performance of Technological Development Project for   2015
   Original Research
   - 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

Kim, P., Choi, S.[†], 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.[†], Min, C., Choi, H., Kim., D, Kumar, P.[†], 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.[†], Kim, D. & Kowalske, K., "Individual and County-Level Factors Shaping Community Reintegration Among Burn Survivors: An Exploratory Machine Learning Approach"

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

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 Long-Term Neighborhood Impacts on Educational Outcomes: Heterogeneous Effects by Disability Status" (sole author)

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]

[GIS Pioneer Research Grant Award](#), *UT Dallas*	2025
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
[AJOU-IN Award](#) (*summa cum laude*), *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

DATA ACCESS PROPOSAL

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 $\geq$ 10 million)*
- *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; co-PI: Dohyeong Kim and Richard Scotch, UTD*
- *Patient-level longitudinal data (1994 – 2022, N $\geq$ 7,000)*
- *National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)*

TEACHING

[Certificate]

Gradate Teaching Certificate, UT Dallas	2025

[Lecturer]

Big Data and Machine Learning for Social Science (with R)	Winter 2026 (planned)

- *Korea Social Science Data Archive (graduate, online)*

GIS and Spatial Statistics (with QGIS, GeoDa, and R)	Summer 2025

- *Korea Social Science Data Archive (graduate, online)*
- *Rating: 9.91/10*

Advanced GIS and Spatial Statistics (with R)	Summer 2023

- *Korea Social Science Data Archive (graduate, online)*
- *Rating: 9.84/10*

Introductory GIS and Spatial Statistics (with QGIS, GeoDa, and STATA)   Summer
   • *Korea Social Science Data Archive* (graduate, online)   2023
   • *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   Fall 2022; Spring 2023;
     (undergraduate)   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

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

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)

2025   APPAM, APHA, ASA, SER, PARC
2024   APPAM, ACRM, ASPA
2023   APPAM, APHA, ASPA

TECHNICAL SKILLS

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

SERVICE

[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
Vice President, *Graduate Student Assembly in Public Administration, Yonsei University*   2018 – 2019
Student Mentor, *Office of Admissions, Ajou University*   2014 – 2015