

Pyung Kim

Ph.D. Candidate

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EDUCATION

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

PROFESSIONAL RESPONSIBILITIES

Graduate Researcher <i>Geospatial Health Research Group, University of Texas at Dallas</i>	2024 – present
Adjunct Lecturer <i>Korea Social Science Data Archive, Seoul National University</i>	2023 – present
Research Assistant <i>Korea Institute of Public Administration</i> (a research organization under the Prime Minister's Office)	2020

RESEARCH INTERESTS

Areas	Neighborhood Effects, Spatial Epidemiology, Environmental Health, Policy Evaluation, Mobility
Methods	GIS, Spatial-temporal Analysis, Bayesian Modeling, Machine Learning, Quasi-experiment

EXTRAMURAL GRANTS

[Ongoing]	
5. Interventional Study to Prevent Exacerbation of Atopic Dermatitis by Exposure to Particulate Matter <ul style="list-style-type: none"> • Role: Data Scientist • PI: Kangmo Ahn, <i>Samsung Medical Center</i> • <i>Korea Disease Control and Prevention Agency</i> (\$629,630) 	2024-2027
4. <u>Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors</u> <ul style="list-style-type: none"> • Role: GIS Specialist • PI: Karen Kowalske, <i>UTSW Medical Center</i>; co-PI: Dohyeong Kim & Richard Scotch, <i>UTD</i> • <i>National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)</i>; \$2,320,495) 	2022-2026

- 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, planned)
 - **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 UW-Madison Retirement and Disability Research Center (\$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 Development of Risk Communication Strategies for Recovering Trust** 2015-2016
- **Role:** Research Assistant
 - **PI:** Seoyong Kim, *Ajou University*
 - *Korea Foundation of Nuclear Safety*
- 1. Track and Analyze the Performance of Technological Development Project for Original Research** 2015
- **Role:** Research Assistant
 - **PI:** Seoyong Kim, *Ajou University*
 - *National Research Foundation of Korea*

PUBLICATIONS * Corresponding author; † Student co-author (Percentile rankings 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"

WORKING PAPERS

"Geospatial Analysis on Dental Health Service Access and Workforce Distribution in Kenya" (with Brenda Okumu, Caroline Kibosia, Dohyeong Kim, Arthur Kemoli, Linus Ndegwa, Osman Adullahi, & Hyewon Lee)

"Who Struggles to Reenter the Community After Injury? A Machine Learning Analysis of Burn Survivors" (with Kristine Hahm, Karen Kowalske, Dohyeong Kim, & Richard Scotch)

"The Impact of Local Knowledge of Social Security Benefits on Children with Disabilities" (sole author)

"Capturing Space-Time Dynamics in Policy Diffusion: A Bayesian Spatial-Temporal Approach" (sole author, accepted for inclusion in the [Special Issue on Policy Diffusion](#), *Policy Studies Journal*)

AWARDS AND HONORS

[External Awards]

Public Administration Research Conference Travel Award , <i>University of Central Florida</i>	2025
JSIT Research Grant , <i>Social Security Administration via UW-Madison</i> , \$6,000	2024
Junior Scholar Intensive Training (JSIT) , <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 of Korea</i> , \$12,000	2018-2020
The Next Century Humanities Scholarship (National Excellence Scholarship), <i>Deputy Prime Minister and Minister of Education of Korea</i> , \$33,000	2015-2018

[Internal Awards]

GIS Pioneer Research Grant Award , <i>UT Dallas & Pioneer Natural Resources Partnership</i> , \$1,000	2025
PPPE Graduate Student Travel Grant , <i>UT Dallas</i> , \$6,000	2023-2025
Keith Lankford Taylor Fellowship , <i>UT Dallas</i> , \$1,000	2023
Brian J.L. Berry Scholarship (Highest Honor), <i>UT Dallas</i> , \$30,000	2021-2026
UT Dallas Graduate Studies Scholarship , <i>UT Dallas</i> , \$97,200	2021-2026
YUPA Graduate Studies Scholarship , <i>Yonsei University</i> , \$6,000	2018-2020
AJOU-IN Award (<i>summa cum laude</i>), <i>Ajou University</i>	2018
Teaching Assistantship for Undergraduate Student , <i>Ajou University</i> , \$6,500	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

DATA ACCESS PROPOSAL

2. The Impacts of School Neighborhoods on the Academic and Labor Market Outcomes of Students with Disabilities	2024
<ul style="list-style-type: none"> • <i>PI: Pyung Kim</i> • <i>Student-level longitudinal data (1999 – 2023, N ≥ 10 million)</i> • <i>Texas Schools Project</i> 	
1. Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors	2022
<ul style="list-style-type: none"> • <i>PI: Karen Kowalske, UTSW Medical Center; co-PI: Dohyeong Kim and Richard Scotch, UTD</i> • <i>Patient-level longitudinal data (1994 – 2022, N ≥ 7,000)</i> • <i>National Institute on Disability, Independent Living, and Rehabilitation Research</i> 	

TEACHING

[Lecturer]

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

Methods of Quantitative Analysis in Social and Policy Sciences Fall 2025
 • *UT Dallas* (undergraduate, in person) (planned)

GIS and Spatial Statistics (with QGIS, GeoDa, and R) Summer
 • *Korea Social Science Data Archive* (graduate, online) 2025

Advanced GIS and Spatial Statistics (with R) Summer
 • *Korea Social Science Data Archive* (graduate, online) 2023
 • *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 for Statistics**, graduate statistics course (EPPS 7313), *UT Dallas* Sep 2023

[Teaching Assistant]

UT Dallas

- Methods of Quantitative Analysis in the Social Sciences (undergraduate) Fall 2022; Spring 2023; Spring 2025
- Civil Liberties (undergraduate) Fall 2024
- 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

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

2025 APHA (upcoming), APPAM (upcoming), ASA (upcoming), SER

2024 ACRM, APPAM, ASPA

2023 APHA, APPAM, ASPA

TECHNICAL SKILLS

Statistical analysis (R, STATA, SPSS)

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

Machine learning (R, Arc GIS)

SERVICE

[Academic Service]

Peer Reviewer: *Scientific Reports (Nature Portfolio)*; *International Journal of Finance and Economics*

[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