Pyung Kim

Ph.D. Candidate
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EDUCATION

Ph.D. in Public Policy and Political Economy, University of Texas at Dallas — 2026 (expected)
- **Brian J.L. Berry Scholarship**, admission with the highest honor of the doctoral program
- Specialization: Health and Social Policy
- Dissertation: *The Long-Term Impacts of Neighborhoods on Children with Disabilities*

M.S. in Geospatial Information Sciences (GIS), University of Texas at Dallas — 2025 (expected)
- Master's Project: *Bayesian Spatial-Temporal Analysis for Policy Evaluation: Estimating the Impact of COVID-19 Social Distancing Policies Using Google Mobility Data*

M.A. in Public Administration, Yonsei University, South Korea — 2020
- **Brain Korea 21 PLUS Scholarship**, National Research Foundation of Korea
- Master's Thesis: *The Effect of Carbon Pricing: Evidence from the Korea Emissions Trading Scheme (Journal version: Kim and Bae, 2022)*

B.A. in Public Administration, Ajou University, South Korea — 2018
- **The Next Century Humanities Scholarship (National Excellence Scholarship)**, awarded by the Deputy Prime Minister and Minister of Education of South Korea
- Honors: *summa cum laude*

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

PROFESSIONAL RESPONSIBILITIES

Geospatial Health Research Group, UT Dallas — 2024 – present
Graduate Researcher

Korea Social Science Data Archive, Seoul National University — 2023 – present
Lecturer (Summer & Winter Programs in Quantitative Methods)

Korea Institute of Public Administration, a research organization under the Prime Minister's Office — 2020
Research Assistant

RESEARCH INTERESTS

Areas	Neighborhood Effects, Health Policy, Social Policy, Public Economics, Social Insurance, Disability
Methods	Quasi-experiment, Causal Inference, Spatial Econometrics, GIS, Bayesian Modeling, Machine Learning

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

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*, forthcoming, (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**)

UNDER REVIEW

Kim, P.[*] "From Stick to Carrot: Comparing the Effectiveness of Carbon Pricing on Firm Environmental Performance with Command-and-Control" (Under review at *Energy Policy;* available at SSRN)

Kim, P. et al., 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" (Under review at *Environmental Pollution*)

WORKING PAPERS

"Bayesian Spatial-Temporal Analysis for Policy Evaluation: Estimating the Impact of COVID-19 Social Distancing Policies Using Google Mobility Data"

"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)

"Enhancing the Spatial Interpolation of Indoor Radon Risk Using Empirical Bayesian Kriging and Bedrock Geology" (with Kristine Hahm & Dohyeong Kim)

"The Geography of Community Integration for Burn Injury Survivors" (with Karen Kowalske, Dohyeong Kim, & Richard Scotch)

GRANTS

[Ongoing]

4. "The Capacity-Building Project for Primary Healthcare Workforce to Improve Maternal and Child Oral Health in Kilifi County, Kenya" (*$5,000;* 2025 – 2026)
   - *Funded by the Korea International Cooperation Agency (KOICA)*
   - *PI: Hyewon Lee, Seoul National University*
   - *Role: GIS Specialist* **(field study in Kenya, August 2025, planned)**

3. "What Is the Relationship Between Adolescent Neighborhood Environments and Long-Run Labor Market Outcomes for Children with Disabilities?" (*$6,000;* 2024 – 2025)
   - *Funded by the Social Security Administration via UW-Madison Retirement and Disability Research Center*
   - *PI:* ***Pyung Kim***

2. "Spatial Distribution of Natural Radiation in Jeonnam Province" (*$160,000;* 2024 – 2025)
   - *Funded by the National Institute of Environmental Research of Korea*
   - *PI: Yeol Rho, Chonnam National Univ.; co-PI: Dohyeong Kim, UTD*
   - *Role: GIS Specialist*

1. "[Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors](#)" (*$2,320,495 with UT Southwestern Medical Center;* 2022 – 2026)
   - *Funded by the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)*
   - *PI: Karen Kowalske, UTSW & Dohyeong Kim, UTD; co-PI: Richard Scotch, UTD*
   - *Role: Data Analyst*

[Completed]

5. "Spatial Distribution of Natural Radiation in Jeonbuk Province" (*$160,000;* 2023 – 2024)
   - *Funded by the National Institute of Environmental Research of Korea*
   - *PI: Yeol Rho, Chonnam National Univ.; co-PI: Dohyeong Kim, UTD*
   - *Role: GIS Specialist*

4. "A Study on International Standards of Software Safety Assessment and Legal Arrangement of Domestic and Foreign Countries" (2020)
   - *Funded by the Korea Software Policy & Research Institute*
   - *PI: Hyunsuk Ryu, Korea Institute of Public Administration*
   - *Role: Research Assistant*

3. "An Analysis of the Local Government Social Welfare Budget" (2018)
   - *Funded by the Korea Ministry of Health and Welfare*
   - *PI: Jaejin Yang, Yonsei University*
   - *Role: Research Assistant*

2. "Analysis of national distrust structure of nuclear safety regulations and development of risk communication strategies for recovering trust" (2015 – 2016)
   - *Funded by the Korea Foundation of Nuclear Safety*
   - *PI: Seoyong Kim, Ajou University*
   - *Role: Research Assistant*

1. "Track and analyze the performance of technological development project for original research" (2015)
   - *Funded by the National Research Foundation of Korea*
   - *PI: Seoyong Kim, Ajou University*
   - *Role: Research Assistant*

AWARDS AND HONORS

[External Awards]

[Public Administration Research Conference (PARC) Travel Award](#), *University of Central Florida*	2025
[JSIT Research Grant](#), *Social Security Administration via UW-Madison*, $6,000	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 of Korea*, $12,000	2018 –2020
The Next Century Humanities Scholarship (National Excellence Scholarship), *Deputy Prime Minister and Minister of Education of South Korea*, $33,000	2015 –2018

[Internal Awards]

PPPE Graduate Student Travel Grant, *UT Dallas,* $4,000	2023 – 2024
Keith Lankford Taylor Fellowship, *UT Dallas,* $1,000	2023
[Brian J.L. Berry Scholarship](#), the highest honor of the program, *UT Dallas,* $30,000	2021 –2026
UT Dallas Graduate Studies Scholarship, *UT Dallas,* $97,200	2021 –2026
YUPA Graduate Studies Scholarship, *Yonsei University,* $6,000	2018 –2020
[AJOU-IN Award](#) (*summa cum laude*), *Ajou University*	2018
Research / Teaching Assistantship for Undergraduate Student, *Ajou University,* $6,500	2015 –2018
Excellence in Undergraduate Research Project, *Ajou University,* $200	2015
Dean's list (GPA: 4.5/4.5), *Ajou University*	2015
Merit-based Full Tuition Scholarship, *Ajou University*	2014
Dean's list (GPA: 4.5/4.5), *Ajou University*	2014

DATA ACCESS PROPOSAL

2. "The Impacts of School Neighborhoods on the Academic and Labor Market Outcomes of Students with Disabilities" *(status: approved by the Texas Higher Education Coordinating Board in 2024)*
   - *Student-level longitudinal data (1999 – 2023, N $\geq$ 5,000,000)*
   - *PI: **Pyung Kim***

1. "Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors" *(status: approved by the NIDILRR in 2022)*
   - *Patient-level longitudinal data (1994 – 2022, N $\geq$ 25,000)*
   - *PI: Karen Kowalske, UT Southwestern Medical Center; co-PI: Dohyeong Kim and Richard Scotch, UTD*

TEACHING

[Lecturer]

Big Data and Machine Learning for Social Science (with R)
- *Korea Social Science Data Archive (graduate, online, Winter 2025-2026, planned)*

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

GIS and Spatial Statistics (with Q GIS and R)
- *Korea Social Science Data Archive (graduate, online, Summer 2025, planned)*

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

Introductory GIS and Spatial Statistics (with Q GIS and R)
- *Korea Social Science Data Archive (graduate, online, Summer 2023)*
- *Rating: 9.54/10*

[Course Development]
Deep Learning for Social Science (with R)
- *Korea Social Science Data Archive (graduate, online, Winter 2025-2026, planned)*
- *Supervisor:* Dohyeong Kim

[Guest Lecture]
- Analysis of Variance, undergraduate statistics course (EPPS 2302), *UT Dallas*, April 2025 (planned)
- 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 and Policy Sciences (undergraduate, Spring 2025)
- Civil Liberties (undergraduate, Fall 2024)
- Economics for Public Policy (graduate, Spring 2024)
- Descriptive and Inferential Statistics (graduate, Fall 2023)
- Methods of Quantitative Analysis in the Social and Policy Sciences (undergraduate, Fall 2022; Spring 2023)
- American National Government (undergraduate, Spring 2022; Fall 2021)

Korea Social Science Data Archive
- Big Data and Machine Learning for Social Science (graduate, Winter 2023-2024; Winter 2024-2025)
- Introductory and Advanced GIS and Spatial Statistics (graduate, Summer 2022)

Yonsei University, South Korea
- Quantitative Policy Analysis (undergraduate, Fall 2019)
- Forecasting Methods and Applications (graduate, Spring 2018)

Ajou University, South Korea
- 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); ACRM (American Congress of Rehabilitation Medicine); ACJS (Academy of Criminal Justice Sciences); PARC (Public Administration Research Conference); SER (Society for Epidemiologic Research)

2025   PARC, ACJS, SER (upcoming), APHA (upcoming), APPAM (upcoming)
2024   ACRM, APPAM, ASPA
2023   APHA, APPAM, ASPA

TECHNICAL SKILLS

Statistical analysis (R, STATA, SPSS)

Geospatial analysis (R, Arc GIS, Quantum GIS, Geo Da, Tableau)

Machine learning (R)

SERVICE

[Academic Service]

Reviewer, *International Journal of Finance and Economics*   2025

[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