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)

- Admission with the highest honor of the doctoral program (*Brian J.L. Berry Scholarship*)
- Specialization (1st): Social and Health Policy / Specialization (2nd): Sustainability
- Dissertation: *Long-Term Neighborhood Effects on Children with Disabilities*

M.S. in Geospatial Information Sciences (GIS), University of Texas at Dallas	2025 (expected)

M.A. in Public Administration, Yonsei University, South Korea	2020

- Brain Korea 21 PLUS Scholarship funded by the National Research Foundation of Korea
- Thesis: *The Effect of Carbon Pricing: Evidence from the Korean Emission Trading Scheme*

B.A. in Public Administration, Ajou University, South Korea	2018

- The Next Century Humanities Scholarship funded by the Korea Ministry of Education
- Honors: *summa cum laude*

Exchange student, Universität of Würzburg, Germany	2016 – 2017

PROFESSIONAL RESPONSIBILITIES

Geospatial Health Research Group, UT Dallas *Graduate Researcher*	2024 – present
Korea Social Science Data Archive, Seoul National University *Lecturer / Teaching Assistant (Summer & Winter Programs in Quantitative Methods)*	2022 – 2024
Korea Institute of Public Administration, a research organization under the Prime Minister's Office *Research Assistant*	2020

AWARDS AND HONORS

[External Awards]

Public Administration Research Conference (PARC) Travel Award, *University of Central Florida*	2025
JSIT Research Award, *Social Security Administration via University of Wisconsin Madison*, $6,000	2024
Junior Scholar Intensive Training (JSIT), *Retirement and Disability Research Center at the 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, *Korea Ministry of Education*, $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
Teaching Assistantship for Undergraduate Student, *Ajou University,* $6,500	2014 –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,* $3,000	2014
Dean's list (GPA: 4.5/4.5), *Ajou University*	2014

PUBLICATIONS

[*] Corresponding author, [†] Student co-author

[Peer-Reviewed Publications]

3. Hong, S.[†][*], Jeong, D. [†], & **Kim, P.** "Have offender demographics changed since the COVID-19 Pandemic? Evidence from money mules in South Korea**."** *Journal of Criminal Justice*, 91 (2024): 102156. (**IF=5.5, 93.6% in Criminology & Penology**)

2. Maxwell, S. P.[*], Brooks, C., **Kim, P.**, Kim, D., McNeely, C. L., & Thomas, K. "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, no. 4 (2023): 865. (IF=4.5)

1. **Kim, P.** & Bae, H.[*] "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 (2022): 112773. (**IF=9.0, 98.0% in Economics**)

[Brief Report]

1. **Kim, P.,** Maxwell, S. P. [*], Parijat, N. [†], Kim, D., & McNeely, C. L. "Targeted Tick-Borne Disease Recognition: Assessing Risk for Improved Public Health." *Healthcare*. 12, no. 10 (2024): 984.

[In Korean]

1. **Kim, P.** & Kim, S. [*] "Analyzing the Opposition to Nuclear Power Energy on the Internet-Focusing on the Moderating Effect of Policy Efficacy." *Crisisonomy*. 13, no. 3 (2017): 1.

UNDER REVIEW

Kim, P. [*], D. Kim, R. Scotch, D. Jeong[†], & K. Kowalske. "Geospatial Analysis of Community-Level Social and Environmental Barriers for Adult Burn Injury Survivors in North Texas" (status: R&R)

Kim, P., Jung, J. [†], Min, C., Choi, H., Kim., D, Kumar, P. [†], Hwang, J., & Song, D[*]. "Personalized Self-Management Behavior Intervention for PM-related Asthma Exacerbation Using Deep Learning" (status: under review)

WORKING PAPERS

"What Is the Relationship Between Adolescent Neighborhood Environments and Long-Run Labor Market Outcomes for Children with Disabilities?" (sole author)

"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 Indoor Radon Risk Estimation through Empirical Bayesian Kriging and Bedrock Geology" (with Kristine Hahm)

"Bayesian Spatial-Temporal Analysis for Policy Evaluation: Estimating the Impact of Social Distancing Policies Using Big Data from Google" (with Sunghye Choi)

FUNDED PROJECTS / 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, January 2026, 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 the University of Wisconsin Madison)*
   - *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: Research assistant (research design, data analysis, GIS mapping, and writing)*

1. "Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors" (*$2,320,495 with UT Southwestern Medical Center; 2022 – 2027*)
   - *Funded by the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)*
   - *PI: Karen Kowalske, UTSW and Dohyeong Kim, UTD; co-PI: Richard Scotch, UTD*
   - *Role: Research assistant (research design, data analysis, GIS mapping, and writing)*

[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: Research assistant (research design, data analysis, GIS mapping, and writing)*

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 (data collection and interview)*

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 (data collection)*

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 (data analysis)*

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 (data collection)*

DATA ACCESS PROPOSAL

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

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

PRESENTATIONS

[Conference]

"AI and Deep Learning for Anticipatory Governance" (planned)
- *American Society for Public Administration* (ASPA)*, April 2025, Washington, DC*

"Broken Windows in the Age of Big Data: Detecting Crime Hotspots Using Crowdsourced Data" (planned)
- *Academy of Criminal Justice Sciences (ACJS), Mar 2025, Denver, CO*

"The Effects of Exposure to Better Neighborhoods on Long-Term Labor Market Outcomes for Children with Disabilities: Evidence from Texas"
- *Public Administration Research Conference (PARC), Feb 2025, Orlando, FL*

"What Is the Relationship Between Neighborhood Environments and Long-Term Labor Market Outcomes for Children with Disabilities?"
- *Association for Public Policy Analysis and Management (APPAM), Nov 2024, Washington, DC*

"The Geography of Disability Inclusion: Geospatial Barriers and Facilitators to Community Integration of Burn Injury Survivors in the United States"
- *American Congress of Rehabilitation Medicine (ACRM), Nov 2024, Dallas, TX*

"How Do US States Address Artificial Intelligence? Insights from State AI Bills"
- *American Society for Public Administration (ASPA), Apr 2024, Minneapolis, MN*

"Burn Injury Survivors as Overlooked Health Disparity: Assessing Spatial Factors for Burn Injury Survivors' Community Reintegration in Texas"
- *American Public Health Association (APHA), Nov 2023, Atlanta, GA*

"From Stick to Carrot: The Effects of Carbon Pricing Policy on Firm Environmental Performance in Korea"
- *Association for Public Policy Analysis and Management (APPAM), Nov 2023, Atlanta, GA*

[Invited Seminar]
"Introductory Calculus for Statistics", a doctoral statistics course (EPPS 7313), UT Dallas, Sep 2023

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 the Social and Policy Sciences
- *UT Dallas (undergraduate, in person, Fall 2025, planned)*

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

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

[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)*
- 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)*

DATA ANALYTICS TOOLS

Statistical analysis (R, STATA, SPSS)
Geospatial analysis (R, Arc GIS, Quantum GIS, Geo Da, Tableau)
Machine learning (Keras in R)

PROFESSIONAL AFFILIATIONS

Association for Public Policy Analysis and Management (APPAM)	2023 – present
American Society for Public Administration (ASPA)	2023 – present
American Public Health Association (APHA)	2023 – 2024
American Congress of Rehabilitation Medicine (ACRM)	2024

SERVICE

Korean Student Association (Secretary), *UT Dallas*	2023 – 2024
Graduate Student Assembly in Public Administration (Vice President), *Yonsei University*	2018 –2019
Student Ambassador, *Ajou University*	2014 –2015