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

EDUCATION

Ph.D. in Public Policy and Political Economy, University of Texas at Dallas	Current

- Admission with the highest honor of the doctoral program (Brian J.L. Berry Scholarship)
- Specialization: Social and Health Policy (expected graduation: May 2026)

M.S. in Geospatial Information Sciences (GIS), University of Texas at Dallas	Current
M.A. in Public Administration, Yonsei University, South Korea	2020
B.A. in Public Administration, Ajou University, South Korea (Honors: summa cum laude)	2018
Exchange student, Universität of Würzburg, Germany	2016 – 2017

PROFESSIONAL EXPERIENCE

Korea Social Science Data Archive *Lecturer / Teaching Assistant (Summer & Winter Program in Quantitative Methods)*	2022 – 2024
Korea Institute of Public Administration, a think tank under the Prime Minister's Office *Research Assistant*	2020

HONORS, AWARDS, & FELLOWSHIPS

Junior Scholar Intensive Training Award, *UW–Madison and Social Security Administration*	2024
President Travel Award for APPAM, *Korean Association for Policy Studies*	2023
PPPE Graduate Student Travel Grant, *UT Dallas*	2023
Keith Lankford Taylor Fellowship, *UT Dallas*	2023
Brian J.L. Berry Scholarship, the highest honor of the program, *UT Dallas*	2021 –2026
UTD Graduate Studies Scholarship, *UT Dallas*	2021 –2026
Brain Korea 21 PLUS Scholarship, *National Research Foundation of Korea*	2018 –2020
YUPA Graduate Studies Scholarship, *Yonsei University*	2018 –2020
AJOU-IN Award (summa cum laude), *Ajou University*	2018
The Next Century Humanities Scholarship, *Korea Ministry of Education*	2015 –2018
Teaching Assistantship for Undergraduate Student, *Ajou University*	2014 –2018
Excellence in Undergraduate Research Project, *Ajou University*	2015
Dean's list (GPA: 4.5/4.5), *Ajou University*	2015
Merit Scholarship, *Ajou University*	2014
Dean's list (GPA: 4.5/4.5), *Ajou University*	2014

RESEARCH INTERESTS

- Environment, health, and disability
- Causal inference and policy evaluation
- Spatial data science and GIS

PEER-REVIEWED PUBLICATIONS

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

[Original Research]

[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. https://doi.org/10.1016/j.jcrimjus.2024.102156. (**IF=5.5, 95.18% in Criminology & Penology**)
  - Research Topic: Examining the impact of the COVID-19 pandemic on crime
  - Design / Method: Interrupted time series analysis

[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. https://doi.org/10.3390/microorganisms11040865. (IF=4.5)
  - Research Topic: Investigating the environmental factors of tick-borne disease
  - Design / Method: Geographical mapping

[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. https://doi.org/10.1016/j.enpol.2021.112773. (**IF=9.0, 98.0% in Economics**)
  - Research Topic: Estimating the effect of cap-and-trade policy on firm-level carbon emissions
  - Design / Method: Two-way fixed effects model

[Brief Report]

[1] **Kim, P.,** Maxwell, S. P. [*], Parijat, N. [†], Kim, D., & McNeely, C. L. (2024). Targeted Tick-Borne Disease Recognition: Assessing Risk for Improved Public Health. *Healthcare*. 12(10), 984. https://doi.org/10.3390/healthcare12100984. (IF=2.8)

UNDER REVIEW

[2] **Kim, P.** [*], Dohyeong Kim, Karen Kowalske, Richard Scotch, Dohyo Jeong[†], Nabeeha Hassan[†], & Kyra Solis. "Geospatial Barriers and Facilitators to Community Reentry of Burn Injury Survivors in North Texas"
  - Research Topic: Investigating the geospatial factors of burn injury survivors' community inclusion
  - Design / Method: Geographical mapping

[1] **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"
  - Research Topic: Predicting individual asthma risk and implementing the personalized intervention
  - Design / Method: Deep learning model (1D-CNN-LSTM)

WORK IN PROGRESS

[4] "The Impacts of School Neighborhoods on the Academic and Labor Market Outcomes of Students with Disabilities"

[3] "The Impacts of Neighborhoods on Economic Resilience after Disability Onset"

[2] "Spatial Relationship Between Radon Exposure and Lung Cancer Incidence" (with Dohyeong Kim)

[1] "Bayesian Spatial-Temporal Modeling with Big Data: An Application to Evaluating Social Distancing Policies Using Google Mobility Data" (with Dohyeong Kim)

FUNDED PROJECTS

[7] "Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors" (*$483,532 with UT Southwestern Medical Center; 2022 – 2026*)
- *Role: Research assistant (research design, data analysis, GIS mapping, and writing)*
- *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*

[6] "Spatial Distribution of Natural Radiation in Jeonbuk Province" (*$160,000; 2023 – 2024*)
- *Role: Research assistant (research design, data analysis, and GIS mapping)*
- *Funded by the National Institute of Environmental Research of Korea*
- *PI: Yeol Rho, Chonnam National Univ.; co-PI: Dohyeong Kim, UTD*

[5] "A Study on International Standards of Software Safety Assessment and Legal Arrangement of Domestic and Foreign Countries" (2020)
- *Role: Research assistant (data collection and interview)*
- *Funded by Korea Software Policy & Research Institute*
- *PI: Hyunsuk Ryu, Korea Institute of Public Administration*

[4] "An Analysis of the Local Government Social Welfare Budget" (2018)
- *Role: Research assistant (data collection and cleaning)*
- *Funded by Korea Ministry of Health and Welfare*
- *PI: Jaejin Yang, Yonsei University*

[3] "Analysis of national distrust structure of nuclear safety regulations and development of risk communication strategies for recovering trust" (2016)
- *Role: Research assistant (data collection and analysis)*
- *Funded by Korea Foundation of Nuclear Safety*
- *PI: Seoyong Kim, Ajou University*

[2] "Track and analyze the performance of technological development project for original research" (2015)
- *Role: Research assistant (data collection and cleaning)*
- *Funded by the National Research Foundation of Korea*
- *PI: Seoyong Kim, Ajou University*

[1] "Analysis of national distrust structure of nuclear safety regulations and development of risk communication strategies for recovering trust" (2015)
- *Role: Research assistant (data collection and analysis)*
- *Funded by Korea Foundation of Nuclear Safety*
- *PI: Seoyong Kim, Ajou University*

DATA PROPOSAL

[2] "The Impacts of School Neighborhoods on the Academic and Labor Market Outcomes of Students with Disabilities"
- *Student- and school-level longitudinal data (1999 – 2023), managed by Texas Education Research Center*
- *PI: **Pyung Kim** (status: submitted in April 2024)*

[1] "Geospatial Community Mapping to Assess Barriers and Facilitators for Burn Survivors"
- *Burn injury survivor-level longitudinal data (1994 – 2022), managed by NIDILRR*
- *PI: Karen Kowalske, UTSW and Dohyeong Kim, UTD; co-PI: Richard Scotch, UTD (status: accepted)*

CONFERENCE PRESENTATIONS

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

[3] "Geography of Disability Inclusion: Barriers and Facilitators to Community Integration of Burn Injury Survivors in North Texas"
- *American Society for Public Administration (ASPA), Apr 2024, Minneapolis, MN*

[2] "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*

[1] "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*

TEACHING

[Lecturer]

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

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

[Teaching Assistant]

Economics for Public Policy
- *UT Dallas (graduate, Spring 2024)*

Big Data Analysis and Machine Learning for Social Science
- *Korea Social Science Data Archive (graduate, Winter 2024)*

Descriptive and Inferential Statistics
- *UT Dallas (graduate, Fall 2023)*

Methods of Quantitative Analysis in the Social and Policy Sciences
- *UT Dallas (graduate, Spring 2023; Fall 2022)*

GIS and Spatial Statistics
- *Korea Social Science Data Archive (graduate, Summer 2022)*

American National Government
- *UT Dallas (undergraduate, Spring 2022; Fall 2021)*

Quantitative Policy Analysis
- *Yonsei University (undergraduate, Fall 2019)*

Forecasting Methods and Applications
- *Yonsei University (graduate, Spring 2018)*

Introduction to Korean Government
- *Ajou University (undergraduate, Fall 2017)*

Research Methods in Public Administration
- *Ajou University (undergraduate, Spring 2016)*

INVITED TALK

"Introductory Calculus for Statistics", a doctoral course in statistics at UT Dallas, Sep 2023

DATA ANALYTICS TOOLS

Statistical analysis (R, STATA, SPSS)

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

PROFESSIONAL AFFILIATIONS

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

SERVICE

Korean Student Association (Secretary)   2023 – Current
- *UT Dallas*

Graduate Student Assembly (Vice President)   2018 – 2019
- *Department of Public Administration, Yonsei University*

Student Ambassador   2014 – 2015
- *Office of Admission, Ajou University*