

Pyung Kim

Ph.D. Candidate
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EDUCATION

Ph.D. in Public Policy and Political Economy, University of Texas at Dallas	Current
<ul style="list-style-type: none"> 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)	Current
M.A. in Public Administration, Yonsei University, South Korea	2020
B.A. in Public Administration, Ajou University, South Korea (Honors: <i>summa cum laude</i>)	2018
Exchange student, Julius-Maximilians Universität of Würzburg, Germany	2016 – 2017

PROFESSIONAL EXPERIENCE

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

HONORS, AWARDS, & FELLOWSHIPS

President Travel Award for APPAM, The Korean Association for Policy Studies	2023
PPPE Graduate Student Travel Grant, UT Dallas (\$2,000)	2023
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
UTD Graduate Studies Scholarship, UT Dallas (\$97,200)	2021 – 2026
Brain Korea 21 PLUS Scholarship, National Research Foundation of Korea (\$12,000)	2018 – 2020
YUPA Graduate Studies Scholarship, Yonsei University (\$6,000)	2018 – 2020
AJOU-IN Award (<i>summa cum laude</i>), Ajou University	2018
The Next Century Humanities Scholarship, Korea Ministry of Education (\$33,000)	2015 – 2018
Teaching Assistantship for Undergraduate Student, Ajou University (\$6,500)	2014 – 2018
Excellence in Undergraduate Research Project, Ajou University (\$300)	2015
Dean's list, Ajou University	2015
Merit Scholarship, Ajou University (\$3,000)	2014
Dean's list, Ajou University	2014

RESEARCH INTERESTS

- Environment, health, and disability
- Causal inference and program evaluation
- Spatial analysis and machine learning

PEER-REVIEWED PUBLICATIONS

- [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: Investigating 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, 65.6% in Microbiology)
- 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

UNDER REVIEW

- [2] **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 personalized asthma risk and intervention
 - Design / Method: Deep learning model (1D-CNN-LSTM)
- [1] **Kim, P.**, Maxwell, S. P., Parijat, N., Kim, D., & McNeely, C. L., "Targeted Tick-Borne Disease Recognition: Assessing Risk for Improved and Equitable Public Health"
- Research Topic: Investigating the occupational and environmental factors of tick-borne disease
 - Design / Method: Geographical mapping

WORKING PAPERS

- [4] "The Effect of Emission Trading Scheme on Carbon Reduction: A Synthetic Control Approach" (with Misun Jun)
- [3] "How Do US States Address Artificial Intelligence? Insights from State AI Bills" (with Hanvit Kim)
- [2] "A Bayesian Spatial-Temporal Model Using Google Mobility Data: Application to Evaluation of the Impact of Social Distancing Policies"
- [1] "Geography of Disability Inclusion: Barriers and Facilitators to Community Integration of Burn Injury Survivors in Texas" (with Karen Kowalske, Dohyeong Kim, Richard Scotch, Doh Jeong, Kyra Solis, and Nabeeha Hassan)

FUNDED PROJECTS

- [7] “Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors” (\$483,532; 2022 – 2027)
- *Role: Research assistant (research design, data analysis, GIS mapping, and writing)*
 - *Funded by the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)*
 - *Karen Kowalske (PI at UTSW Medical Center), Dohyeong Kim (PI at UTD), Richard Scotch (co-PI at 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*
 - *Yeol Rho (PI at Chonnam National Univ.), and Dohyeong Kim (co-PI at 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*
 - *Hyunsuk Lee (PI at 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*
 - *Jaemin Yang (PI at 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*
 - *Seoyong Kim (PI at 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*
 - *Seoyong Kim (PI at 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*
 - *Seoyong Kim (PI at Ajou University)*

CONFERENCE PRESENTATIONS

[5] “How Do US States Address Artificial Intelligence? Insights from State AI Bills”

- *American Society for Public Administration (ASPA)*, Apr 2024, Minneapolis, MN (planned)

[4] “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 (planned)

[3] “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

[2] “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)*

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)

Feb 2024 – Current

American Congress of Rehabilitation Medicine (ACRM)

Feb 2024 – Current

American Public Health Association (APHA)

Jul 2023 – Current

Association for Public Policy Analysis and Management (APPAM)

Mar 2023 – Current

SERVICE

Korean Student Association (Secretary)

Sep 2023 – Aug 2024

- *UT Dallas*

Graduate Student Assembly (Vice President)

Sep 2018 – Feb 2019

- *Department of Public Administration, Yonsei University*

Student Ambassador

Mar 2014 – Feb 2015

- *Office of Admission, Ajou University*