

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, 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

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 (\$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	2015
Dean's list (GPA: 4.5/4.5), Ajou University	2015
Merit Scholarship, Ajou University (\$3,000)	2014
Dean's list (GPA: 4.5/4.5), Ajou University	2014

RESEARCH INTERESTS

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

PEER-REVIEWED PUBLICATIONS

[†] Student co-author

- [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 individual asthma risk and implementing the personalized 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 Public Health"
- Research Topic: Investigating the occupational and environmental factors of tick-borne disease
 - Design / Method: Geographical mapping

WORKING PAPERS

- [4] "The Impacts of Neighborhoods on Economic Resilience after Disability Onset"
- [3] "Spatial Relationship Between Radon Exposure and Lung Cancer" (with Yul Roh)
- [2] "Bayesian Spatial-Temporal Modeling with Big Data: An Application to Evaluating Social Distancing Policies Using Google Mobility Data" (with Dohyeong Kim)
- [1] "Geography of Disability Inclusion: Barriers and Facilitators to Community Integration of Burn Injury Survivor" (with Karen Kowalske, Dohyeong Kim, Richard Scotch, Dohyo 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 with UT Southwestern Medical Center; 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), Dohyeong Kim (PI at UTD), and 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 Ryu (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

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

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

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

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

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