

## Pyung Kim

Ph.D. Candidate

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### EDUCATION

<b>Ph.D. in Public Policy and Political Economy</b> <i>University of Texas at Dallas</i> (Brian J.L. Berry Scholarship, Highest Honor)	2021-2026 (expected)
<b>M.S. in Geospatial Information Sciences (GIS)</b> <i>University of Texas at Dallas</i>	2023-2025 (expected)
<b>M.A. in Public Administration</b> <i>Yonsei University</i> (Brain Korea 21 PLUS Scholarship, National Research Foundation of Korea)	2020
<b>B.A., <i>summa cum laude</i> in Public Administration</b> <i>Ajou University</i> (National Excellence Scholarship, Deputy Prime Minister of Korea)	2018
<b>Exchange Student</b> <i>Julius-Maximilian University of Würzburg, Germany</i>	2016-2017

### PROFESSIONAL RESPONSIBILITIES

<b>Graduate Researcher</b> <i>Geospatial Health Research Group, University of Texas at Dallas</i>	2024 – present
<b>Adjunct Lecturer</b> <i>Korea Social Science Data Archive, Seoul National University</i>	2023 – present
<b>Research Assistant</b> <i>Korea Institute of Public Administration</i> (a research organization under the Prime Minister's Office)	2020

### RESEARCH INTERESTS

<b>Areas</b>	Neighborhood Effects, Spatial Epidemiology, Environmental Health, Health Policy, Disability, Aging
<b>Methods</b>	GIS, Spatial-temporal Analysis, Bayesian Modeling, Machine Learning, Quasi-experiment

### EXTRAMURAL GRANTS

<u>[Ongoing]</u>	
<b>5. Interventional Study to Prevent Exacerbation of Atopic Dermatitis by Exposure to Particulate Matter</b> <ul style="list-style-type: none"> <li>• <b>Role:</b> Data Analyst</li> <li>• <b>PI:</b> Kangmo Ahn, <i>Samsung Medical Center</i></li> <li>• <i>Korea Disease Control and Prevention Agency</i> (\$629,630)</li> </ul>	2024-2027
<b>4. <u>Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors</u></b> <ul style="list-style-type: none"> <li>• <b>Role:</b> GIS Specialist</li> <li>• <b>PI:</b> Karen Kowalske, <i>UTSW Medical Center</i>; <b>co-PI:</b> Dohyeong Kim &amp; Richard Scotch, <i>UTD</i></li> <li>• <i>National Institute on Disability, Independent Living, and Rehabilitation Research</i> (\$2,320,495)</li> </ul>	2022-2026

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|---|-----------|
| <p><b>3. The Capacity-Building Project for Primary Healthcare Workforce to Improve Maternal and Child Oral Health in Kilifi County, Kenya</b></p> <ul style="list-style-type: none"> <li>• <b>Role:</b> GIS Specialist (field study in Kenya, October 2025, planned)</li> <li>• <b>PI:</b> Hyewon Lee, <i>Seoul National University</i></li> <li>• <i>Korea International Cooperation Agency (\$440,000)</i></li> </ul> | 2025-2026 |
|   |           |
| <p><b>2. <u>What Is the Relationship Between Adolescent Neighborhood Environments and Long-Run Labor Market Outcomes for Children with Disabilities?</u></b></p> <ul style="list-style-type: none"> <li>• <b>PI:</b> Pyung Kim, UTD</li> <li>• <i>Social Security Administration via UW-Madison Retirement and Disability Research Center (\$6,000)</i></li> </ul>  | 2024-2025 |
|   |           |
| <p><b>1. “Spatial Distribution of Natural Radiation in Jeonnam Province”</b></p> <ul style="list-style-type: none"> <li>• <b>Role:</b> GIS Specialist</li> <li>• <b>PI:</b> Yeol Rho, <i>Chonnam National Univ.</i>; <b>co-PI:</b> Dohyeong Kim, UTD</li> <li>• <i>National Institute of Environmental Research of Korea (\$160,000)</i></li> </ul>   | 2024-2025 |
|   |           |
| [Completed]   |           |
| <p><b>5. Spatial Distribution of Natural Radiation in Jeonbuk Province</b></p> <ul style="list-style-type: none"> <li>• <b>Role:</b> GIS Specialist</li> <li>• <b>PI:</b> Yeol Rho, <i>Chonnam National Univ.</i>; <b>co-PI:</b> Dohyeong Kim, UTD</li> <li>• <i>National Institute of Environmental Research of Korea (\$160,000)</i></li> </ul>   | 2023-2024 |
|   |           |
| <p><b>4. A Study on International Standards of Software Safety Assessment and Legal Arrangement of Domestic and Foreign Countries</b></p> <ul style="list-style-type: none"> <li>• <b>Role:</b> Research Assistant</li> <li>• <b>PI:</b> Hyunsuk Ryu, <i>Korea Institute of Public Administration</i></li> <li>• <i>Korea Software Policy &amp; Research Institute</i></li> </ul>                                       | 2020      |
|   |           |
| <p><b>3. An Analysis of the Local Government Social Welfare Budget</b></p> <ul style="list-style-type: none"> <li>• <b>Role:</b> Research Assistant</li> <li>• <b>PI:</b> Jaejin Yang, <i>Yonsei University</i></li> <li>• <i>Korea Ministry of Health and Welfare</i></li> </ul>   | 2018      |
|   |           |
| <p><b>2. Analysis of National Distrust Structure of Nuclear Safety Regulations and Development of Risk Communication Strategies for Recovering Trust</b></p> <ul style="list-style-type: none"> <li>• <b>Role:</b> Research Assistant</li> <li>• <b>PI:</b> Seoyong Kim, <i>Ajou University</i></li> <li>• <i>Korea Foundation of Nuclear Safety</i></li> </ul>   | 2015-2016 |
|   |           |
| <p><b>1. Track and Analyze the Performance of Technological Development Project for Original Research</b></p> <ul style="list-style-type: none"> <li>• <b>Role:</b> Research Assistant</li> <li>• <b>PI:</b> Seoyong Kim, <i>Ajou University</i></li> <li>• <i>National Research Foundation of Korea</i></li> </ul>   | 2015      |

**PUBLICATIONS** \* Corresponding author; † Student co-author (Percentile rankings are based on Journal Citation Reports)[Peer-reviewed Publications]

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*, 51(5), 107512, (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**)

[Brief Report]

1. **Kim, P.**, Maxwell, S., Parijat, N., Kim, D., & McNeely, C. L. (2024). "Targeted Tick-Borne Disease Recognition: Assessing Risk for Improved Public Health." *Healthcare*. 12 (10). 984

**UNDER REVIEW**

**Kim, P.**, Choi, S.†, Kim, D., & Lee, C. "Bayesian Spatial-Temporal Modeling for Policy Evaluation: Assessing the Impact of COVID-19 Social Distancing Policies Using Google Mobility"

**Kim, P.**, 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"

**Kim, P.**\* "From Command-and-Control to Carbon Pricing: Estimating the Causal Effects on Firm Environmental Performance"

**WORKING PAPERS**

"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)

"Who Struggles to Reenter the Community After Injury? A Machine Learning Analysis of Burn Survivors" (with Karen Kowalske, Dohyeong Kim, & Richard Scotch)

"The Impact of Local Knowledge of Social Security Benefits on Children with Disabilities" (sole author)

"Bayesian Spatial-Temporal Modeling for Policy Diffusion Research: Capturing Time, Space, and Their Interactions." (sole author, accepted for inclusion in the [Special Issue on Policy Diffusion](#), *Policy Studies Journal*)

## AWARDS AND HONORS

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### [External Awards]

<b>Public Administration Research Conference Travel Award</b> , <i>University of Central Florida</i>	2025
<b><u>JSIT Research Grant</u></b> , <i>Social Security Administration via UW-Madison</i> , \$6,000	2024
<b><u>Junior Scholar Intensive Training (JSIT)</u></b> , <i>Social Security Administration via UW-Madison</i>	2024
<b>President Travel Award for APPAM</b> , <i>Korean Association for Policy Studies</i>	2023
<b>Brain Korea 21 PLUS Scholarship</b> , <i>National Research Foundation of Korea</i> , \$12,000	2018-2020
<b>The Next Century Humanities Scholarship</b> (National Excellence Scholarship), <i>Deputy Prime Minister and Minister of Education of Korea</i> , \$33,000	2015-2018

### [Internal Awards]

<b><u>GIS Pioneer Research Grant Award</u></b> , <i>UT Dallas &amp; Pioneer Natural Resources Partnership</i> , \$1,000	2025
<b>PPPE Graduate Student Travel Grant</b> , <i>UT Dallas</i> , \$6,000	2023-2025
<b>Keith Lankford Taylor Fellowship</b> , <i>UT Dallas</i> , \$1,000	2023
<b><u>Brian J.L. Berry Scholarship</u></b> , <i>UT Dallas</i> , \$30,000	2021-2026
<b>UT Dallas Graduate Studies Scholarship</b> , <i>UT Dallas</i> , \$97,200	2021-2026
<b>YUPA Graduate Studies Scholarship</b> , <i>Yonsei University</i> , \$6,000	2018-2020
<b><u>AJOU-IN Award</u></b> ( <i>summa cum laude</i> ), <i>Ajou University</i>	2018
<b>Teaching Assistantship for Undergraduate Student</b> , <i>Ajou University</i> , \$6,500	2015-2018
<b>Excellence in Undergraduate Research Project</b> , <i>Ajou University</i>	2015
<b>Dean's list</b> , <i>Ajou University</i>	2015
<b>Merit-based Full Tuition Scholarship</b> , <i>Ajou University</i>	2014
<b>Dean's list</b> , <i>Ajou University</i>	2014

## DATA ACCESS PROPOSAL

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<b>2. The Impacts of School Neighborhoods on the Academic and Labor Market Outcomes of Students with Disabilities</b>	2024
<ul style="list-style-type: none"> <li>• <i>PI: Pyung Kim</i></li> <li>• <i>Student-level longitudinal data (1999 – 2023, <math>N \geq 5,000,000</math>)</i></li> <li>• <i>Texas Schools Project</i></li> </ul>	
<b>1. Geospatial Community Mapping to Assess Social and Environmental Barriers and Facilitators for Burn Survivors</b>	2022
<ul style="list-style-type: none"> <li>• <i>PI: Karen Kowalske, UTSW Medical Center; co-PI: Dohyeong Kim and Richard Scotch, UTD</i></li> <li>• <i>Patient-level longitudinal data (1994 – 2022, <math>N \geq 25,000</math>)</i></li> <li>• <i>National Institute on Disability, Independent Living, and Rehabilitation Research</i></li> </ul>	

## TEACHING

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### [Lecturer]

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

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

**GIS and Spatial Statistics** (with QGIS, GeoDa, and R) Summer 2025  
 • *Korea Social Science Data Archive* (graduate, online)

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

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

### [Guest Lecture]

• **Analysis of Variance**, undergraduate statistics course (EPPS 2302), *UT Dallas* April 2025  
 • **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 Sciences** (undergraduate) Fall 2022; Spring 2023; Spring 2025  
 • **Civil Liberties** (undergraduate) Fall 2024  
 • **Economics for Public Policy** (graduate) Spring 2024  
 • **Global Health and Society** (undergraduate) Fall 2023; Spring 2024  
 • **Descriptive and Inferential Statistics** (graduate) Fall 2023  
 • **American National Government** (undergraduate) Spring 2022; Fall 2021

#### *Korea Social Science Data Archive*

• **Big Data and Machine Learning for Social Science** (graduate) Winter 2024; 2025  
 • **Introductory and Advanced GIS and Spatial Statistics** (graduate) Summer 2022

#### *Yonsei University*

• **Quantitative Policy Analysis** (undergraduate) Fall 2019  
 • **Forecasting Methods and Applications** (graduate) Spring 2018

#### *Ajou University*

• **Introduction to Korean Government** (undergraduate) Fall 2017  
 • **Research Methods in Public Administration** (undergraduate) Spring 2016

## CONFERENCE PRESENTATIONS

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\* APHA (American Public Health Association); APPAM (Association for Public Policy Analysis and Management); ASPA (American Society for Public Administration); ACRM (American Congress of Rehabilitation Medicine); SER (Society for Epidemiologic Research); ASA (American Sociological Association)

**2025** APHA (upcoming), APPAM (upcoming), ASA (upcoming), SER

**2024** ACRM, APPAM, ASPA

**2023** APHA, APPAM, ASPA

## TECHNICAL SKILLS

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Statistical analysis (R, STATA, SPSS)

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

Machine learning (R)

## SERVICE

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### [Academic Service]

**Peer Reviewer:** *Scientific Reports (Nature Portfolio); International Journal of Finance and Economics*

### [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