

Insoo Kim

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EDUCATION

Master of Urban and Environmental Planning; GPA: 4.0 / 4.0 May 2027 (anticipated)
Arizona State University, Tempe, Arizona

Proposed Thesis: Multi-objective Spatial Optimization of Green Infrastructure for Heat and Flood Risk Reduction in Phoenix, Arizona (Co-chairs: Dr. Daoqin Tong, Dr. Maura Allaire)

B.S. Urban Engineering; GPA: 3.74 / 4.0 2025
Chungbuk National University (CBNU), Republic of Korea

Exchange Program, Civil Engineering (Fall 2021); GPA: 3.79 / 4.0 2021
Angelo State University, San Angelo, Texas

RESEARCH EXPERIENCE

Graduate Researcher

School of Geographical Sciences and Urban Planning, ASU Tempe, Arizona
Spatial Analysis Research Center (SPARC) Jan 2026 – Present
Advisors: Dr. Daoqin Tong, Dr. Aaron Flores

-Lead analyst on "A GeoAI Framework for High-Resolution Land Cover Classification in Phoenix, Arizona" (Advisor: Dr. Tong); developing deep learning models (U-Net, ResNet) for vegetation and land cover mapping using NAIP imagery and LiDAR-derived data.

-Principal Investigator (PI), Central Arizona–Phoenix LTER Graduate Grant (\$5,000), NSF Long-Term Ecological Research Network (2026), supporting the GeoAI land cover classification project above.

-Lead analyst on "Longitudinal Spatial Disparities in Flood Insurance Uptake: A National Analysis of NFIP Coverage Using the Spatial Durbin Model" (Advisor: Dr. Flores); constructing a longitudinal NFIP panel dataset and estimating Spatial Durbin Models across multiple take-up rate specifications.

Undergraduate Researcher

Department of Urban Engineering, CBNU Cheongju, Chungbuk Province, Korea
Sustainable Urban Planning Laboratory Jan 2025 – Aug 2025
Supervisor: Dr. Yong Un Ban (byubyu@chungbuk.ac.kr)

-Led the study "Acceptance Range of Disaster Shelters and the Factors Affecting Evacuation Possibility Rate in Korea"; first-author manuscript under review at Progress in Disaster Science.

-Conducted spatial analysis of heat-related illness across 250 districts in South Korea using Geographically Weighted Regression (GWR); identified spatial heterogeneity in social and physical determinants of heat illness incidence.

PUBLICATIONS

Kim, I., Lee, S. H., Jang, T. H., Jang, H., Lee, K. H., & Ban, Y. U. (2025). *Acceptance range of disaster shelters and the factors affecting evacuation possibility rate in Korea* [Revise and resubmit (Minor Revision)]. *Progress in Disaster Science*. SSRN. <https://doi.org/10.2139/ssrn.5270156>

PRESENTATIONS

Kim, I., & Flores, A. (2026, October). *Longitudinal Spatial Disparities in Flood Insurance Uptake: A National Analysis of NFIP Coverage Using the Spatial Durbin Model* [Research-in-Motion]. Association of Collegiate Schools of Planning (ACSP) Annual Conference, Pittsburgh, PA. [Forthcoming]

Kim, I., & Tong, D. (2026, April). *Unequal Safety: Spatial Disparities in Disaster Shelter Accessibility in South Korea* [Innovation Snapshot]. American Planning Association, National Planning Conference (NPC26), Detroit, MI.

Kim, I. (lead author), Lee, S. (presenter), Kim, E., Kim, D., Kim, J., Yoon, J., & Cho, S. (2025, October). *Improving Emergency Alert Systems and Disaster Shelters in Korea* [Policy Proposal]. Advisory Panel Performance Sharing Conference, Ministry of the Interior and Safety, Sejong City, Republic of Korea. *Awarded Ministerial Commendation for outstanding policy proposal.*

FELLOWSHIPS, GRANTS & SCHOLARSHIPS

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| Storying Just Futures Fellow, UNESCO BRIDGES Lab, ASU | 2026 |
| Central Arizona–Phoenix Long–Term Ecological Research Graduate Grant (\$5,000) | 2026 |
| Mary R. Kihl Leadership Endowment Award, Arizona State University (\$1,250) | 2026 |
| Texas A&M University 2025-2027 Pathway Program Travel Support (\$500) | 2026 |
| Graduate Travel and Conference Funding, Arizona State University (\$1,450) | 2026 |
| Academic Excellence Scholarship, Chungbuk National University (\$13,000) | 2020 – 2025 |
| Tuition Award, Angelo State University (\$10,000) | 2021 |
| Exchange Student Scholarship, Chungbuk National University (\$2,000) | 2021 |

HONORS & AWARDS

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| Ministerial Commendation for Outstanding Policy Research, MOIS, Korea | 2025 |
| Outstanding in Extracurricular Activity Award, Office of Academic Affairs, CBNU (\$400) | 2025 |
| Highest Honor (Rank 1/n), Department of Urban Engineering, CBNU | 2024 – 2025 |
| Capstone Design Competition Award, College of Engineering, CBNU | 2024 |
| Distinguished Service in Education and Training, Republic of Korea Army | 2023 |
| Dean’s List, Angelo State University (Fall Semester) | 2021 |
| Science Creator Discovery Contest Award, Ministry of Science and ICT, Korea (\$1,000) | 2021 |
| Urban Regeneration Supporters Idea Contest, Cho Chi-won City | 2020 |

TEACHING EXPERIENCE

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| Graduate Teaching Assistant (0.5 FTE), Geographic Info Science I <i>School of Geographical Sciences and Urban Planning, ASU</i> | Tempe, Arizona, USA Aug 2025 – May 2026 |
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-Designed and recorded instructional videos on Python environment setup (Anaconda) and ArcGIS Pro, substitute-taught during instructor absences, and co-designed midterm and final examination questions.

-Received strongly positive student evaluations (n=37, 55% response rate, Fall 2025), with written comments citing responsiveness, fair grading, and enthusiasm for helping students.

LEADERSHIP & COMMUNITY ENGAGEMENT

2030 Advisory Panel Member, Ministry of the Interior and Safety, Korea 2025
Policy Supporters, Ministry of Science and ICT, Korea 2024
Drill Instructor, Republic of Korea Army 35th Infantry Division 2022 – 2023
Team Member, Cheongju & Sejong Urban Regeneration Projects, Korea (Gov-funded \$5,000) 2020

URBAN PLANNING & POLICY WORK EXPERIENCE

Urban Planning Assistant Goyang, Gyeonggi Province, Korea
Land Compensation Dept., Korea Land and Housing Corporation Jul 2021 – Aug 2021

-Conducted site inspections, supported land compensation tasks, and provided administrative support for a road expansion project.

Disaster Relief Counselor Daejeon, Chungnam Province, Korea
Contact Solutions Division, KTCS Corporation Jan 2021 – Mar 2021

-Provided consultation for COVID-19 disaster relief funding in coordination with government agencies.

Technical Planning Staff Cheongju, Chungbuk Province, Korea
Future Strategy Group, Forcewave Corporation Aug 2020 – Oct 2020

-Updated blueprint drawings for the Cheongju SK Hynix facility using AutoCAD.

ADDITIONAL WORK EXPERIENCE

Translation Assistant Cheongju, Chungbuk Province, Korea
Office of International Affairs, Chungbuk National University Dec 2024 – Mar 2025

-Translated Memoranda of Understanding (MOUs) with international partner universities. Developed and structured a database of international partner institutions.

Social Affairs Journalist Cheongju, Chungbuk Province, Korea
Newspapers and Broadcasting Company, Chungbuk National University Mar 2020 – Dec 2020

-Wrote and published articles on public policy and urban issues, including personal mobility regulation and urban regeneration projects.

LICENSES & CERTIFICATIONS

CITI Human Research - Social & Behavioral Research, Arizona State University 2026
CIRTL Associate 2025
Licensed Urban Planning Engineer (Ministry of Land, Infrastructure and Transport, Korea) 2025
Licensed Craftsman Surveying (Ministry of Land, Infrastructure and Transport, Korea) 2023

SKILLS

GIS & Spatial Analysis: ArcGIS Pro, QGIS

Programming: Python (PyTorch, pandas, rasterio), R (spdep, sf), C

Optimization: CPLEX, Gurobi

Other Tools: AutoCAD, SketchUp, TRANSIMS, ALOHA

Languages: Korean (native), English (TOEFL 97/120, GRE 314/340, OPIc Advanced Low)