

# Jiyoung Lee

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## Research Interests

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Crime; Flood; Urban Resilience Vulnerability, and Risk Assessment; Geospatial Artificial Intelligence (GeoAI); Geospatial analysis; Geo-visualization; Web GIS; Remote Sensing

## Teaching Interests

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GIS; Remote Sensing; GeoAI; Spatial Data Science; GIS Application (e.g., Crime, Planning, Disaster); Programming (e.g., Python, JavaScript, HTML, CSS); Geo-visualization

## Educations

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Aug 2018 – Aug 2024	Louisiana State University (LSU), Baton Rouge, LA, USA Ph.D. in Geography   Advisor: Dr. Michael Leitner Dissertation: Expanding Research in Environmental Criminology with Digital Imagery and Geospatial Methods
Aug 2020 – Dec 2022	Louisiana State University, Baton Rouge, LA, USA M.S in Computer Science   Advisor: Dr. Jinwei Ye Master Project: Analysis of Theft Hotspots in Environmental Criminology Theory Using Machine Learning and Google Street Image
Sep 2016 – Feb 2018	Sungshin Women's University, Seoul, Republic of Korea (ROK) M.A in Geography   Advisor: Dr. Jaejoon Jeong Thesis: Implementation of Interactive Web Map Applicable in Spatio-temporal Data Mapping
Mar 2013 – Aug 2016	Sungshin Women's University, Seoul, ROK B.A Major in Geography <i>Minor in Information Technology, Computer Software</i>

## Appointments

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### • Academic Institutions

2024 Fall – Present	Lecturer, University of Nebraska – Lincoln, Lincoln (UNL), NE, USA
2024 Fall – Present	Postdoctoral Researcher, UNL
2024 Spring	Teaching Assistant, LSU
2022 Fall – 2023 Fall	Research Assistant, LaHouse, LSU AgCenter, LA, USA
2020 Fall – 2022 Summer	Research Assistant, LSU
2018 Fall – 2020 Spring	Teaching Assistant, LSU
2018 Spring	Lecturer, Sangmyung University, Seoul, ROK
2014 Spring – 2016 Fall	Research Assistant, Sungshin Women's University
2014 Spring – 2014 Fall	Intern, Sungshin Women's University

### • Professional Organizations

2024 – Present	Student Representative, The Cyberinfrastructure Specialty Group (CISG), American Association of Geographers (AAG), Washington D.C., USA
2023 – Present	Student Representative, The Applied Geography Specialty Group (AGSG), AAG

2020 Fall – 2021 Spring	Graduate Research Scholar, Louisiana Sea Grant’s Program, Louisiana SeaGrant, LA, USA
2017 – 2018	Civilian Advisory Committee, National Spatial Data, Ministry of Land, Infrastructure, and Transport, Sejong, ROK
2015	Committee Member, Young Leaders Club for Ecotourism, Ministry of Environment, Sejong, ROK

## Grants

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Jul 2025 – May 2026	<b>Co-PI.</b> Nebraska Department of Transportation (NDOT), “Leveraging AI and Street View Imagery for Pedestrian Safety,” PI: Yunwoo Nam (Pending)
Jan 2025 – Aug 2026	<b>Co-PI.</b> Southeast Nebraska Development District (SENDD), “Southeast Nebraska Infrastructure Inventory,” PI: Abigail Cochran
Dec 2023 – Jun 2024	<b>Co-PI.</b> Underscore, “Research on effectiveness analysis of women’s safety policy using spatial analysis: Focusing on Seoul Metropolitan City,” PI: Yoon Jeong Jang
Aug 2021 – Dec 2021	<b>PI.</b> Gyeonggi Research Institute (GRI), “An Analysis of Quality of Life with Policy Suggestions for the Elderly in Gyeonggi-do”
May 2021 – Aug 2021	<b>PI.</b> Austrian Marshall Plan Foundation, “Spatiotemporal Analysis of Nighttime Crimes in Vienna, Austria”
July 2014 – Dec 2014	<b>PI.</b> Seoul Metropolitan Government, “Journeys in Geography: From Field Trips to Visual Storytelling”

## Publications

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In Prep.	[15]	Su, K.K., <b>Lee, J.</b> , Kwan, M., Hu, S., Mo, K.H. Neighborhood features, out-of-home physical activities and public health: Using Google Street View images and survey data to inform the planning and design of age-friendly neighborhoods
In Review	[14]	Jahangeer, J., Singh, R., <b>Lee, J.</b> , Joshi, P., Tang, Z. Mapping Watershed Wetness Dynamics and Prioritizing Potential Agricultural Sites for Wetland Conservation Programs in Nebraska.
In Review	[13]	Jahan, R. N., Jahangeer, J., Singh, R. <b>Lee, J.</b> , & Tang, Z. Do State-Level Wetland Program Plans Effectively Address the U.S. National 'No Net Loss' Wetlands Goal?, <i>Journal of Environmental Engineering</i>
In Review	[12]	Jang, Y., J., O’Connell, H., A., & <b>Lee, J.</b> The Effectiveness of Policy Aimed at Securing Women’s Safety: A Spatial Analysis in Seoul Metropolitan City, <i>Spatial Demography</i>
In Review	[11]	Oh, H., Adcox, W., <b>Lee, J.</b> Tourism, Gentrification, and Homicide in New Orleans after Hurricane Katrina. <i>Sociological Research for a Dynamic World (Socius)</i> ; Under review)
In Review	[10]	<b>Lee, J.</b> , & Leitner, M. Street Crime Analysis in Baton Rouge, LA: A Google Street View and Machine Learning Approach, <i>Cities</i>
In Review	[9]	Singh, R., Mason, J., Jahangeer, <b>Lee, J.</b> , Andrews, J., Jahan, R. N., Noor, M. A., Nam, Y., & Jiang, Y. J. Tang, Z. Assessing Flood Mitigation Preparedness in Nebraska’s Rural Communities through Local Comprehensive Plans. <i>Journal of Flood Risk Management</i> (Under review)
In Review	[8]	Andrew, J., <b>Lee, J.</b> , Mason, J. B., Singh, R., Jahangeer, J., Nam, Y., Jiang, Y., & Tang, Z. Spatial Disparities in Flood Risk Exposure: A Structure-Level Analysis of Mobile Home Parks in Eastern Nebraska, <i>Natural Hazards</i>
2025	[7]	<b>Lee, J.</b> , Leitner, M. Geography and Crime. In: Warf, B. (eds) <i>The Encyclopedia of Human Geography</i> . Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-25900-5_147-1">https://doi.org/10.1007/978-3-031-25900-5_147-1</a>
2024	[6]	<b>Lee, J.</b> , Leitner, M., & Paulus, G. Spatiotemporal Analysis of Nighttime Crimes in Vienna, Austria, <i>International Journal of Geo-Information</i> . <a href="https://doi.org/10.3390/ijgi13070247">10.3390/ijgi13070247</a>

- 2024 [5] Kim, K., **Lee, J.**, Ahn, Y., & Jeong, J. Changes in Spatiotemporal Patterns of Crimes During the Covid-19 Pandemic: A Case Study of Atlanta, Georgia, *Applied Spatial Analysis and Policy*. [10.1007/s12061-023-09531-0](https://doi.org/10.1007/s12061-023-09531-0)
- 2023 [4] Friedland, C. J., Lee, Y., Mostafiz, R., **Lee, J.**, Mithila, S. P., Rohli, R. V., Gnan, E., & Farris, M. FloodSafeHome: Evaluating Benefits and Savings of Freeboard for Improved Decision-Making in Flood Risk Mitigation, *Frontiers in Communication, section Disaster Communications*. [10.3389/fcomm.2023.1060901](https://doi.org/10.3389/fcomm.2023.1060901)
- 2021 [3] An Analysis of Quality of Life with Policy Suggestions for the Elderly in Gyeonggi-do, *Gyeonggi Research Institute* (KOREAN).
- 2019 [2] Lee, J., & **Lee, J.** Analysis of Practical Sharing City via Big Data about Shared Bike in Seoul City, *Journal of the Korean Association of Professional Geographers*, Vol.53, no.4, pp 509-520 (KOREAN).
- 2016 [1] Rhee, H., **Lee, J.**, & Park, K. Climate Disaster of the Joseon Dynasty: at Soonjo Dynasty, *Journal of Applied Geography*, Vol.33, pp 37-57 (KOREAN).

## ***Teaching Experiences***

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### • **Instructor**

- 2025 Spring [CRPL 432/832] Advanced Spatial Analysis with GIS, UNL  
 2024 Fall [CRPL 840] Planning Methods and Analysis, UNL  
 2018 Apr – May [SP0018] Geovisualization of Spatial Information, Sangmyung University, Seoul, ROK  
 2018 Apr – May [SP0012] Introduction to Remote Sensing and Photogrammetry, Sangmyung University  
 2018 Apr – May [SP0024] Remotely Sensed Image Analysis, Sangmyung University

### • **Guest Lecturer**

- 2024 Spring Geospatial Applications of Small Unoccupied Aircraft Systems in [GEOG 4049], LSU  
 2022 Fall Spatiotemporal Analysis of Nighttime Crimes in [GEOG 4043], LSU  
 2017 Spring Base GIS Workshop, Sungshin Women's University

### • **Teaching Assistant (TA)**

- 2024 Spring [GEOG 4049] Geospatial Applications of Small Unoccupied Aircraft Systems, LSU  
 2024 Spring [GEOG 4020] Aerial Photo Interpretation and Image Processing, LSU  
 2018 Fall – 2020 Spring [GEOG 2051] Physical Geography: Land and Water Systems, Plant and Animal Realms, LSU

## ***Research Experiences***

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### • **Postdoctoral Researcher**

- 2025 – Present Southeast Nebraska Infrastructure Inventory, UNL  
 2024 – Present Disaster Risk Awareness and Housing Resilience Planning for the Most Impacted and Distressed (HUD-MID) Areas in Nebraska, UNL  
 2024 – Present Enhance Resilience Capacity for Disadvantaged Communities and Tribes in the Midwest Region through Promoting Post-disaster Recovery Effectiveness in Social Equity and Economic Development, UNL

### • **Research Assistant (RA)**

- 2020 – 2023 Incentives and Barriers to Increased Freeboard to Enhance Flood Resilience; Southeast Louisiana Perspectives, LaHouse, LSU AgCenter

2020 – 2022	How Smarter Decision-Making by Renters and Homebuyers Will Increase Coastal Resilience, LSU
2020 – 2022	Cost Effectiveness of CDBG-DR: Flood Mitigation and Vulnerable Populations, LSU
2017 – 2018	Analysis of Public Spatial Data Portal Service for Considering Map-Making Procedures, Sungshin Women’s University
2016 – 2018	Regional Productivity Comparison Using GRDP and Income Tax, Sungshin Women’s University
2016 – 2018	GIS Data Acquisition for Secondary School Atlas, Sungshin Women’s University
2016 – 2017	Comparison and Analysis of Census Population and Resident Registration Population, Sungshin Women’s University
2016 – 2017	Comparison and Analysis of Census Population and Resident Registration Population, Sungshin Women’s University
2016	Mapping for Medical Institutions, Kyung Hee University, Seoul, ROK
2016	Selecting Vulnerable Areas of the Medical Services, Kyung Hee University
2016	Representation of the Historical and Geographical Environment through the Reconstruction of Administrative Districts and Traffic Networks in the Joseon Period, Foundation Research Support Project in Korean Studies, Seoul, ROK
2015 – 2016	Improvement Schemes for Small-Scale National Maps of Korea, Sungshin Women’s University
2015	Thematic Map Making for Atlas Publication, GeoDream Co., Seoul, ROK
2014	Analysis of Errors in Map on Social Studies Textbook High School, Sungshin Women’s University

## ***Presentations***

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### • **Invited Talks**

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| 2024 | [3] | <b>Lee, J.</b> , Jarhan, S., Huang, Y., Yang, Y., & Simpson, C. Introduction to the GeoAI Foundation Model and Its Application, <i>an Integrative Discovery Environment (I-GUIDE) Virtual Consulting Office Session</i> , Virtual. |
| 2023 | [2] | Leitner, M. & <b>Lee, J.</b> Temporal Approximation Methods for Crime Data that Possess Imprecise Time Stamps, <i>International Association of Crime Analysts (IACA) 2023 Conference</i> , Grapevine, TX, USA                      |
| 2023 | [1] | <b>Lee, J.</b> & Leitner, M. Crime Analysis Using Google Street Map Images and Machine Learning Techniques, <i>International Association of Crime Analysts (IACA) 2023 Conference</i> , Grapevine, TX, USA                         |

### • **Oral Presentations**

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| 2025 | [20] | <b>Lee, J.</b> , Andrew, J., Li, C., Nam, Y., Tang, Z. Using GeoAI to Map Residential Development Patterns in At-Risk Flood Zones in Eastern Nebraska, <i>2025 Annual Meeting of AAG</i> , Detroit, MI, USA                   |
| 2025 | [19] | Andrews, J., <b>Lee, J.</b> , Li, C., Nam, Y., Tang, Z. Spatial Disparities in Flood Risk Exposure: A Structure-Level Analysis of Mobile Home Parks in Eastern Nebraska, <i>2025 Annual Meeting of AAG</i> , Detroit, MI, USA |
| 2025 | [18] | <b>Lee, J.</b> , Andrew, J., Nam, Y., Tang, Z. Exploring Residential Patterns in Eastern Nebraska's Flood Zones Through GeoAI, <i>2025 Nebraska Planning Conference</i> , Kearney, NE, USA                                    |
| 2025 | [17] | <b>Lee, J.</b> , Nam, Y. Crime and Urban Design: Exploring the Influence of the Built Environment, <i>2025 Nebraska Planning Conference</i> , Kearney, NE, USA  |

- 2024 [16] Andrews, J., **Lee, J.**, Mason, J. B., Nam, Y., Jiang, Y., Tang, Z. Disaster Risk Awareness and Housing Resilience Planning for the Most Impacted and Distressed (HUD-MID) areas in Nebraska, *2024 Nebraska Water Conference*, Lincoln, NE, USA
- 2024 [15] Singh, R., Mason, J. B., Jahangeer, J., Jahan, R. N., **Lee, J.**, Andrews, J., Nam, Y., Jiang, Y., Tang, Z. Learning from 2019's Flood Lessons: Evaluating Local Comprehensive Plans' Preparedness for Flood Risk Reduction in Nebraska, *2024 Annual Conference of Nebraska Floodplain and Stormwater Managers Association*, Kerney, NE, USA
- 2024 [14] **Lee, J.**, & Leitner, M. Street Crime Landscapes in Baton Rouge, LA: Insights from Google Street View and Image Segmentation, *2024 Graduate Research Conference*, Baton Rouge, LA, USA
- 2024 [13] He, S., Sun, K. K., **Lee, J.**, Kwan, M. P., & Mo., K. H. The built environment, out-of-home travel and activities, and public health of older people: A study of Hong Kong, *2024 World Symposium on Transport and Land Use Research*, Bogotá, Colombia
- 2024 [12] **Lee, J.**, & Leitner, M. Street Crime Analysis in Baton Rouge, LA: A Google Street View and Machine Learning Approach, *2024 Annual Meeting of AAG*, Honolulu, HI, USA (Final list for the Robert Raskin Student Competition)
- 2024 [11] Jeong, Y., O'Connell, H. A., & **Lee, J.** The Effectiveness of Policy Aimed at Securing Women's Safety: A Spatial Analysis in Seoul Metropolitan City, *2024 Annual Meeting of Southern Sociological Society*, New Orleans, LA, USA
- 2023 [10] Mostafiz, R., **Lee, J.**, Mithila, S. M., Rahim, M. A., Garcia, A., Friedland, C. J., Rohli, R. V., & Lee, Y. Enhancing Flood Damage Mitigation and Resilience in Louisiana's Coastal Parishes through Geospatial Decision Support, *American Geophysical Union Fall Meeting 2023*, San Francisco, CA, USA
- 2023 [9] **Lee, J.**, Mostafiz, R., Mithila, S. M., Rahim, M. A., Garcia, A., Lee, Y., Rohli, R. V., & Friedland, C. J. FloodSafeHome: Empowering Geospatial Decision Support Tool for Flood Management and Freeboard Optimization, *2023 I-GUIDE Forum*, New York, NY, USA.
- 2023 [8] Simpson, C., Jarhan, S., Yang, Y., **Lee, J.**, & Huang, Y. GeoAI Model Transformation, *2023 I-GUIDE Summer School*, Boulder, CO, USA
- 2023 [7] **Lee, J.**, & Leitner, M. Understanding Street Theft Hotspots Using Machine Learning and Google Street Image, *2023 Annual Meeting AAG*, Denver, CO, USA
- 2023 [6] **Lee, J.**, Friedland, C. J., Rohli, R. V., Lee, Y., Rahim, M. A., & Mostafiz, R. Flood Safe Home, *Louisiana Fisheries Forward Summit*, Kenner, LA, USA
- 2022 [5] **Lee, J.**, Friedland, C. J., Lee, Y., Rohli, R. V., Mithila, S. M., Mostafiz, R., Rahim, M. A., & Gana, E. FloodSafeHome: A flood management support system with tailored freeboard recommendations, *2022 Annual meeting of the Southwest Division AAG*, Fayetteville, AR, USA
- 2022 [4] **Lee, J.**, & Leitner, M. Spatiotemporal Analysis of Nighttime Crimes in Vienna, Austria, *2022 Annual Meeting AAG*, Virtual.
- 2021 [3] **Lee, J.**, Shifat, M. P., Rubay, M., Yoncheol, L., Carol, J. F., Ehab, G., Robert, V. R., Monica, F., Arash, T., Pamela, J., & Tao, H. T. "Flood Safe Home": a web-based interactive decision-making tool for optimal freeboard recommendations to enhance flood resilience, *2021 Annual Meeting AAG*, Virtual.
- 2021 [2] Orooji, F., Taghinezhad, A., Friedland, C. J., Mithila, S. P., & **Lee, J.** Wind hazard risk assessment and mitigation for residential construction to support community decision-making Paper, *Disaster PRIMR 2021*, Virtual.
- 2021 [1] Tao, H. T., Ferris, M., Jenkins, P., Friedland, C. J., Rohli, R. V., Lee, Y., Taghinezhad, A., Mithila, S. P., **Lee, J.**, Mostafiz, R., Gnan, E., & Rahim, M. A. Incentives and Barriers to Increased Freeboard to Enhance Flood Resilience with FloodSafeHome, *2021 EPA Region 6 Stormwater Conference*, New Orleans, LA, USA

- **Poster Presentations**

- 2024 [9] **Lee, J.** & Leitner, M. Leveraging Google Street View for Crime Pattern Analysis in Baton Rouge, *2024 I-GUIDE Virtual Poster Competition*, Virtual.
- 2024 [8] Jeong, Y., O’Connell, H. A., & **Lee, J.** The Effectiveness of Policy Aimed at Securing Women’s Safety: A Spatial Analysis in Seoul Metropolitan City, *2024 Annual Meeting of Population Association of America*, Columbus, OH, USA
- 2023 [7] **Lee, J.** & Leitner, M. Identify the Characteristics of Crime Hotspots Using Machine Learning and Google Street View, *2023 Graduate Research Conference*, Baton Rouge, LA, USA
- 2023 [6] **Lee, J.**, Friedland, C. J., Garcia, A. J., Mithila, S. P., Rahim, M. A., Mostafiz, R. B., Lee, Y., Rohli, R. V., & Farris, M. T. A Flood Risk Decision-Making Webtool for Flood Mitigation and Freeboard Optimization, *25th Anniversary for LSU AgCenter LaHouse Resource*, Baton Rouge, LA, USA
- 2021 [5] **Lee, J.** Benefits of Optimal Freeboard, *Coastal Connections at LSU – Infographic Challenge*, Baton Rouge, LA, USA
- 2021 [4] Mostafiz, R., Mithila, S. P., **Lee, J.**, Lee, Y., Friedland, C. J., Gnan, E., Rohli, R. V., Farris, M., Taghinezhad, A., Jenkins, P., & Tao, T. H. Communicating the Value of Freeboard through a Decision-making Tool for New Home Construction in Louisiana, *8th International Conference on Flood Management (ICFM8) 2021*, Virtual.
- 2021 [3] Mostafiz, R., Mithila, S. P., **Lee, J.**, Gnan, E., Tao, H. T., Lee, Y., Friedland, C. J., Rohli, R. V., Farris, M., & Jenkins, P. Reduction in Housing Cost through Freeboard: A Flood Risk Webtool for Homeowners, *State of the Coast 2021*, Virtual.
- 2019 [2] **Lee, J.** & Leitner, M. The effect of nighttime lights on Crime in Baton Rouge, Louisiana, *2019 Annual Meeting AAG*, Washington, District of Columbia, USA.
- 2016 [1] **Lee, J.** Changes in the Population Structure of Korea since 2000: A Comparative Analysis of Resident Registration Population and Census Population, *2016 Annual Meeting of Korean Geographers*, Gangnam-gu, Seoul, Korea (KOREAN).

### Honors and Awards

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- 2024 Runner-up, 2024 Landscape Photography Competition, Landscape Specialty Group - AAG
- 2024 2023-2024 Graduate Student Association Travel Award, LSU
- 2023 2024 Student Travel Award, AAG
- 2023 2<sup>nd</sup> Place Award, The Interactive Dashboard category of the Analytical Products Contest, International Association of Crime Analyst
- 2023 3<sup>rd</sup> Place Award, 2023 Graduate Research Conference – Poster Section, LSU
- 2023 2022-2023 Graduate Student Association Travel Award, LSU
- 2023 AAG EPBG (Environmental Perception & Behavioral Geography Specialty Group) Travel Award, AAG
- 2023 AAG AGSG Travel Award, AAG
- 2022 AAG AGSG Travel & Research Award, AAG
- 2020 2019-2020 Graduate Student Association Travel Award, LSU
- 2017 Minister's Awards for the Best Civil Advisory on National Spatial Data, Ministry of Land Infrastructure and Transport Korea, Sejong, ROK
- 2017 Bachelor/Master Link Program Scholarship, Sungshin Women’s University
- 2016 Entrance Scholarship, Sungshin Women’s University

2016	Excellence Award, Geospatial Map Idea Contest, National Geographic Information Institute, Gyeonggi-do, ROK
2016	Silver Prize, 2016 Annual Meeting of Korean Geographers – Poster Session, Korean Geographical Society, Seoul, ROK
2016	Top Five Excellence Student Scholarship, Sungshin Women’s University
2016	Best Study Group Award, GISStudy, Sungshin Women’s University
2015	Top Five Excellence Student Scholarship, Sungshin Women’s University
2015	Excellence Study Group Award, GISStudy, Sungshin Women’s University
2014	Excellence Study Group Award, GISStudy, Sungshin Women’s University
2014	Dean’s Scholarship, Sungshin Women’s University
2013	Best Study Group Award, Daedongyeojido (History Map), Sungshin Women’s University

### ***Professional Experiences***

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2023	I-GUIDE Summer School 2023, UCAR campus in Boulder, CO, USA
2014	Organized Field Trip Photo Exhibition, Hyehwa Metro Museum, ROK
2014	Language Tutoring (Chinese & Korean), Sungshin Women’s University
2014	Student Internship, Korea Geographical Research Institute, Sungshin Women’s University

### ***Academic Services***

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- **Leadership Roles**

2015 – 2016	President, GISStudy, Sungshin Women’s University
2014 – 2016	Student Board Member, Department of Geography, Sungshin Women’s University
2014	President, Gumanli (Field Trip Club), Sungshin Women’s University

- **Conference Organizations**

2025	Session Organizer, Using Geo-AI to Map Flood Risk in Residential Areas of Eastern Nebraska, 2025 Nebraska GIS Symposium
2025	Session Organizer, GeoAI-Driven Planning: Advancing Planning with Artificial Intelligence and GIS, Nebraska Planning Conference
2025	Session Organizer, Planning for Resilience, Nebraska Planning Conference

- **Invited Reviews**

AgriEngineering (1)
International Journal of Geo-Information (1)
Remote Sensing (1)

### ***News And Press***

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2024	UNL Community and Regional Planning Team Helps Hard-Hit Communities Prepare for Future Floods, <i>ACSP Current News: University Member News</i> , <a href="https://www.acsp.org/news/689709/UNL-Community-and-Regional-Planning-Team-Helps-Hard-Hit-Communities-Prepare-for-Future-Floods.htm">https://www.acsp.org/news/689709/UNL-Community-and-Regional-Planning-Team-Helps-Hard-Hit-Communities-Prepare-for-Future-Floods.htm</a>
2024	Global Engagement Spotlight: Jiyoung Lee, <i>The Global Tiger Blog</i> , <a href="https://www.lsu.edu/global-engagement/about/involved/global-tiger/2024/blog-alum-jul-24.php">https://www.lsu.edu/global-engagement/about/involved/global-tiger/2024/blog-alum-jul-24.php</a>

- 2023                    LSU Researchers Develop Tool To Predict Flood Insurance Premium, *houmatoday*, <https://www.houmatoday.com/story/news/2023/11/01/lsu-researchers-develop-tool-to-predict-flood-insurance-premiums/71393317007/>

### ***Professional Society Memberships***

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- Association of American Geographers (AAG)
- Korean-American Scientists and Engineers Association (KSEA)
- Korean-America Association for Geospatial and Environmental Sciences (KAGES)
- The Cartography and Geographic Information Society (CaGIS)

### ***Licenses & Certifications***

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| 2024 | Graduate Geographic Information Science Certificate, LSU   |
| 2024 | The Recreational UAS Safety Test (TRUST) Completion Certificate, Academy of Model Aeronautics (Authentication Token IAMA86854849643) |
| 2021 | Social and Behavioral Responsible Conduct of Research, CITI Program (Credential ID: 41536614)  |

### ***Volunteers***

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| 2023 | Emergency Disaster Kit booth at the LSU Sea Grant Ocean Commotion, LSU                            |
| 2023 | Department of Geography and Anthropology from LSU booth at the 2023 AAG meeting, AAG, Denver, USA |
| 2022 | LaHouse Flood Fighter booth at the LSU Sea Grant Ocean Commotion, LSU                             |
| 2019 | GIS-Pro 2019, Urban and Regional Information Systems Association (URiSA), New Orleans, USA        |
| 2018 | SWAAG 2018, Southwest Division of AAG, LSU  |
| 2015 | Korean Geographical Society Conference 2015, The K-Hotel Seoul, ROK                               |
| 2014 | Korean Cartographic Association Conference 2014, Korea University, Seoul, ROK                     |
| 2013 | Suwon Eco Film Festival, Korea Green Foundation, Gyeonggi-do, ROK                                 |
| 2013 | Hi Seoul Festival 2013, Seoul Metropolitan Government, Seoul, ROK                                 |
| 2012 | Cooperation & Participation in Overseas NGOs (COPION), Kathmandu, Nepal                           |

### ***Skills***

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| <b>3D Modeling</b>    | Sketch-up and CityEngine  |
| <b>Design</b>         | Adobe Photoshop, Illustrator, XD, and Flash   |
| <b>GIS</b>            | ArcGIS Desktop, ArcGIS Pro, ArcGIS Online, ArcGIS JavaScript, QGIS, Leaflet, CARTO, Mapbox.gl.js, Cesium.js, CrimeStat, and Hazus |
| <b>Languages</b>      | HTML, CSS, JavaScript, ReactJS, Python, and SQL   |
| <b>Other Software</b> | Microsoft Office  |
| <b>Remote Sensing</b> | ERDAS IMAGINE   |
| <b>Statistics</b>     | SPSS  |