# Jiyoung Lee

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#### **Research Interests**

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

## **Teaching Interests**

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

## <u>Educations</u>

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 (SWU), 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 <i>Major in</i> Geography <i>Minor in</i> Information Technology, Computer Software

#### **Appointments**

#### • Academic Institutions

2024 Fall – Present	Postdoctoral Researcher, Community and Regional Planning Program, University of Nebraska – Lincoln, Lincoln (UNL), NE, USA
2024 Fall – 2025 Spring	Lecturer, Community and Regional Planning Program, UNL
2024 Spring	Graduate Teaching Assistant, Department of Geography and Anthropology, LSU
2022 Fall – 2023 Fall	Graduate Research Assistant, LaHouse, LSU AgCenter, LA, USA
2020 Fall – 2022 Summer	Graduate Research Assistant, Department of Construction Management, LSU
2018 Fall – 2020 Spring	Graduate Teaching Assistant, Department of Geography and Anthropology, LSU
2018 Spring	Lecturer, College of Space Environment, Sangmyung University, Seoul, ROK
2016 Fall – Spring 2018	Graduate Research Assistant, Department of Geography, SWU
2014 Spring – 2016 Spring	Undergraduate Research Assistant, Department of Geography, SWU
2014 Spring – 2014 Fall	Intern, Korean Geography Institute, SWU

## • Professional Organizations

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**

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**

## • Encyclopedia

2025

Lee, J., Leitner, M. Geography and Crime. In: Warf, B. (eds) *The Encyclopedia of Human Geography*. Springer, Cham. <u>10.1007/978-3-031-25900-5\_147-1</u>

## • Peer-reviewed Journal Papers

[1]

Accepted	[8]	Andrew, J., Lee, J., 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>
Accepted	[7]	Singh, R., Mason, J., Jahangeer, Lee, J., 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>
2025	[6]	Jahan, R. N., Jahangeer, J., Singh, R. Lee, J., & 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> . <u>10.1061/JOEEDU.EEENG-8107</u>
2024	[5]	Lee, J., Leitner, M., & Paulus, G. Spatiotemporal Analysis of Nighttime Crimes in Vienna, Austria, <i>International Journal of Geo-Information</i> . <u>10.3390/ijgi13070247</u>
2024	[4]	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, <i>Applied Spatial</i> <i>Analysis and Policy</i> . <u>10.1007/s12061-023-09531-0</u>
2023	[3]	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, <i>Frontiers in Communication, section Disaster Communications</i> . <u>10.3389/fcomm.2023.1060901</u>
2019	[2]	Lee, J., & Lee, J. Analysis of Practical Sharing City via Big Data about Shared Bike in Seoul City, <i>Journal of the Korean Association of Professional Geographers</i> , 53(4), 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)

### • Peer-reviewed Journal Papers (In review and preparation)

In Prep.	[8]	Su, K.K., Lee, J., 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	[7]	Lee, J., Andrew, J., Jenny B. Mason, Jahangeer, J., Li, C., Nam, Y., Tang, Z. Evaluate Flood Risk of Residential Development in Eastern Nebraska by Using Geo-AI on Satellite Imagery, <i>Computers, Environment and Urban Systems</i>	
In Review	[6]	Jahangeer, J., Singh, R., Lee, J., Joshi, P., Tang, Z. Mapping Watershed Wetness Dynamics and Prioritizing Potential Agricultural Sites for Wetland Conservation Programs in Nebraska. <i>Environmental Monitoring and Assessment</i>	
In Review	[5]	Khandokar, A., Mason, J. B., Singh, R., <b>Lee, J.</b> , Andrews, J., Jahangeer, J., Jahan, N. R., Noor, A. S., Joshi, P., Nam, Y., Tang, Z. Social Media's Role in Rural Flood Risk Management: An Empirical Study from the Most Impacted Regions after 2019 Flood in Nebraska. <i>Weather, Climate, and Society</i>	
In Review	[4]	Noor, A. S., Mason, J. B., Singh, R., Jahangeer, J., <b>Lee, J.</b> , Andrews, J., Khandokar, A., Jahan, N. R., Joshi, P., Nam, Y., Tang, Z. Evaluating the Preparedness of Local Zoning Regulations for Flood Risk Reduction in the Most Affected Local Jurisdictions in Nebraska. <i>Natural Hazards</i>	
In Review	[3]	Jang, Y., J., O'Connell, H., A., & Lee, J. The Effectiveness of Policy Aimed at Securing Women's Safety: A Spatial Analysis in Seoul Metropolitan City, <i>Spatial Demography</i>	
In Review	[2]	Oh, H., Adcox, W., Lee, J. Tourism, Gentrification, and Homicide in New Orleans after Hurricane Katrina. <i>Criminology &amp; Criminal Justice</i>	
In Review	[1]	Lee, J., & Leitner, M. Street Crime Analysis in Baton Rouge, LA: A Google Street View and Machine Learning Approach, <i>Cities</i>	
• Report			
2021	[1]	Lee, J., Lee, S. An Analysis of Quality of Life with Policy Suggestions for the Elderly in Gyeonggi-do, <i>Gyeonggi Research Institute</i> (KOREAN)	

# **Research Experiences**

#### Postdoctoral Researcher

2025 - Present	Southeast Nebraska Infrastructure Inventory, UNL (Co-PI)
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

Jiyoung Lee	Curriculum Vitae	Update: May 2025
2017 - 2018	Analysis of Public Spatial Data Portal Service for Considering SWU	Map-Making Procedures,
2016 - 2018	Regional Productivity Comparison Using GRDP and Income T	fax, SWU
2016 - 2018	GIS Data Acquisition for Secondary School Atlas, SWU	
2016 - 2017	Comparison and Analysis of Census Population and Resident F SWU	Registration Population,
2016 - 2017	Comparison and Analysis of Census Population and Resident F SWU	Registration Population,
2016	Mapping for Medical Institutions, Kyung Hee University, Seou	ıl, ROK
2016	Selecting Vulnerable Areas of the Medical Services, Kyung He	ee University
2016	Representation of the Historical and Geographical Environmen of Administrative Districts and Traffic Networks in the Joseon Research Support Project in Korean Studies, Seoul, ROK	
2015 - 2016	Improvement Schemes for Small-Scale National Maps of Kore	a, SWU
2015	Thematic Map Making for Atlas Publication, GeoDream Co., S	Seoul, ROK
2014	Analysis of Errors in Map on Social Studies Textbook High Sc	hool, SWU

# Teaching Experiences

## • 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	The Aerial View API (Secondary data source exercise) in [GEOG 4049], LSU
	2022 Fall	Spatiotemporal Analysis of Nighttime Crimes in [GEOG 4043], LSU
	2017 Spring	Base GIS Workshop, SWU
•	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

# **Presentations**

#### • Invited Talks

2025	[4]	Tang, Z., Mason, B.J., Nam, Y., <b>Lee, J.</b> , Singh, R., Andrews, J., Noor, M.A., Jahan, R.N., Khandokar, A., Joshi, P., Jahangeer, J., 2025, Promoting Integrating Planning for Flood Mitigation and Community Resilience, <i>League of Nebraska Municipalities-2025 Midwinter Conference</i> , Lincoln, NE, USA
2024	[3]	Lee, J., 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

<i></i>	0	1 2
2023	[2]	Leitner, M. & Lee, J. Temporal Approximation Methods for Crime Data that Possess Imprecise Time Stamps, <i>International Association of Crime Analysts (IACA) 2023</i> <i>Conference</i> , Grapevine, TX, USA
2023	[1]	Lee, J. & 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 Pres	entations	
2025	[23]	Andrews, J., Lee, J., & Hollman, A. Seeing Beyond Speed Tests: A Multimodal Deep Learning Framework for Rural Broadband Assessment, TPRC53 2025, Washington, District of Columbia, USA
2025	[22]	Lee, J., & Nam, Y. Crime Analysis with Google Street View Images and Machine Learning Techniques & Using AI and Geospatial Technology to Inventory ADA Curb Ramps in Douglas County, 2025 Nebraska GIS Symposium, Lincoln, NE, USA
2025	[21]	Lee, J., & Andrews, J., Nam, Y., & Tang, Z. Leveraging Geo-AI for Monitoring and Assessing Conservation Land Conditions in Nebraska & Using Geo-AI to Map Flood Risk in Residential Areas of Eastern Nebraska, 2025 Nebraska GIS Symposium, Lincoln, NE, USA
2025	[20]	Lee, J., Andrew, J., Li, C., Nam, Y., Tang, Z. Using GeoAI to Map Residential Development Patterns in At-Risk Flood Zones in Eastern Nebraska, 2025 Annual Meeting of AAG, Detroit, MI, USA
2025	[19]	Andrews, J., Lee, J., Li, C., Nam, Y., Tang, Z. Spatial Disparities in Flood Risk Exposure: A Structure-Level Analysis of Mobile Home Parks in Eastern Nebraska, 2025 Annual Meeting of AAG, Detroit, MI, USA
2025	[18]	Lee, J., Andrew, J., Nam, Y., Tang, Z. Exploring Residential Patterns in Eastern Nebraska's Flood Zones Through GeoAI, 2025 Nebraska Planning Conference, Kearney, NE, USA
2025	[17]	Lee, J., Nam, Y. Crime and Urban Design: Exploring the Influence of the Built Environment, 2025 Nebraska Planning Conference, 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., <b>Lee, J.</b> , 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., <b>Lee, J.</b> , 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, <i>Coastal Connections at LSU – Infographic Challenge</i> , 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

2025	2025 Scientists and Engineers Early Career Development (SEED) Workshop Selection and
2024	Travel Award, Korean-American Scientists and Engineers Association (KSEA) 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	3rd Place Award, 2023 Graduate Research Conference – Poster Section, LSU
2023	2022-2023 Graduate Student Association Travel Award, LSU
2023	AAG Environmental Perception & Behavioral Geography Specialty Group Travel Award,
	AAG
2023	AAG Applied Geography Specialty Group (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
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	Best Study Group Award, GIStudy, SWU
2015	Excellence Study Group Award, GIStudy, SWU
2014	Excellence Study Group Award, GIStudy, SWU
2013	Best Study Group Award, Daedongyeojido (History Map), SWU

# Scholarships and Stipends

2018-2024 2019-2022 2017 2016 2016 2015	Graduate Assistantship, LSU Graduate Housing Stipend, LSU Bachelor/Master Link Program Scholarship, SWU Entrance Scholarship, SWU Top Five Excellence Student Scholarship, SWU Top Five Excellence Student Scholarship, SWU
2015	Top Five Excellence Student Scholarship, SWU
2014	Dean's Scholarship, SWU

# Academic Services

#### • Leadership Roles

2024 – Present Student Representative, The Cyberinfrastructure Specialty Group (CISG), AAG

2023 - Present	Student Representative, The Applied Geography Specialty Group (AGSG), AAG
2015 - 2016	President, GIStudy, SWU
2014 - 2016	Student Board Member, Department of Geography, SWU
2014	President, Gumanli (Field Trip Club), SWU

## • 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 (A-Z)

AgriEngineering (1) Cities (1) International Journal of Geo-Information (2) Remote Sensing (2)

# Licenses & Certifications

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)

# **Other Experiences**

2023	I-GUIDE Summer School 2023, UCAR campus in Boulder, CO, USA
2015-2017	Organized and Lead Field Trips, SWU
2014	Organized Field Trip Photo Exhibition, Hyehwa Metro Museum, ROK
2014	Language Tutoring (Chinese & Korean), SWU

# Professional Society Memberships

- 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)

#### Volunteers

2025	Antelope Valley Flood Project,. Summer Workshop for High School Students, UNL
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

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# News And Press

2025	Inundation Maps for Nebraska Conservation Land, Rainwater Basin Joint Venture, <u>https://www.rwbjv.org/inundation-maps/</u>
2024	UNL Community and Regional Planning Team Helps Hard-Hit Communities Prepare for Future Floods, ACSP Current News: University Member News, https://www.acsp.org/news/689709/UNL-Community-and-Regional-Planning-Team- Helps-Hard-Hit-Communities-Prepare-for-Future-Floods.htm
2024	Global Engagement Spotlight: Jiyoung Lee, <i>The Global Tiger Blog</i> , <u>https://www.lsu.edu/global-engagement/about/involved/global-tiger/2024/blog-alum-jul-24.php</u>
2023	LSU Researchers Develop Tool To Predict Flood Insurance Premium, <i>houmatoday</i> , <u>https://www.houmatoday.com/story/news/2023/11/01/lsu-researchers-develop-tool-to-predict-flood-insurance-premiums/71393317007/</u>

# <u>Skills</u>

Design	Adobe Photoshop, Illustrator, XD, and Flash
GIS	ArcGIS Pro, ArcGIS Online, ArcGIS JavaScript, QGIS, Leaflet, CARTO, Mapbox.gl.js,
	Cesium.js, CrimeStat, and Hazus
Languages	HTML, CSS, JavaScript, ReactJS, Python, and SQL
Other Software	Microsoft Office
Remote Sensing	ERDAS IMAGINE
Statistics	SPSS

# References (A-Z Last Name)

<b>Dr. Michael Leitner</b> PhD advisor	Carl O. Sauer Professor of the Department of Geography E-104 Howe-Russell-Kniffen Geoscience Complex Louisiana State University Baton Rouge, LA 70803 Phone: (225)-578-2963 Email: <u>mleitne@lsu.edu</u>
<b>Dr. Yunwoo Nam</b> Co-PI for currently funded projects	Professor & Director of the Community and Regional Planning Program (CRP) 314 Architecture Hall, 400 Stadium Dr. University of Nebraska-Lincoln Lincoln, NE 68588-0106 Phone: (402)-472-9212 Email: <u>ynam2@unl.edu</u>
Dr. Zhenghong Tang	Professor of CRP & Associate Dean for research and innovation for the College of Architecture

PI for currently funded projects

313 Architecture Hall, 400 Stadium Dr. Lincoln, NE 68588-0106 Phone: (402)-472-9281 Email: <u>ztang2@unl.edu</u>