

EDUCATION

- Sep 2021 - **Ph.D., Informatics**, University of California - Irvine, Irvine CA, USA
Adviser: Professor Paul Dourish
- 2019 - 2021 **Master of City and Regional Planning**, Georgia Institute of Technology, Atlanta GA, USA
Adviser: Assistant Professor Clio Andris | Specialization - Urban Design | GPA 4.0/4.0
Thesis: The Shape of Discourse in Urban Movements through the Lens of Social Media: a Case Study of the Anti-Redevelopment Movement in South Korea.
- 2014 - 2019 **B.S., Civil & Environmental Engineering**, Seoul National University
Minor in Geography | GPA 4.04/4.3 | Summa Cum Laude

RESEARCH INTEREST

Data-driven urban governance | Urban data science for spatial social justice | Data visualization
Technology for collaborative placemaking | Civic media | Civic data | Participatory design
Critical data studies | Feminist studies

RESEARCH EXPERIENCE

- Sep 2021 - **Graduate Researcher**
CREATE center, University of California - Irvine, Irvine CA, USA
- Conducting research regarding the practice of quantifying and operationalizing justice in local governments in UCI Steckler Center for Responsible, Ethical, and Accessible Technology (CREATE)
- May 2021 **Master's Thesis, School of City and Regional Planning**
Georgia Institute of Technology, Atlanta GA, USA
- Thesis title: The Shape of Discourse in Urban Movements through the Lens of Social Media: a Case Study of the Anti-Redevelopment Movement in South Korea.
 - Analyzed social media use and public discourse within the urban movement using NLP techniques and interviews.
- 2019 - 2021 **Graduate Research Assistant**
Friendly Cities Lab, Georgia Institute of Technology, Atlanta GA, USA
- Designed and developed an interactive web map 'COVID-19 Event Risk Planning Tool' using R
 - Investigated social diversity at places using mobile GPS trip data and interactive mapping tools
 - Characterized individual spatial social networks using machine learning techniques and found distinct sociodemographic/behavioral characteristics associated with the network types
- May - Aug 2018 **Researcher, Department of Civil & Environmental Engineering**
Maturepolis Lab, KAIST, Daejeon, Korea
- Analyzed consumer age-specific patterns of restaurant preferences in commercial areas of Seoul by harvesting online place recommendations from the NAVER Place service using Python

- Jan - Apr 2018 **Research Intern**
City Region Studies Centre, University of Alberta, Edmonton, Canada
- Project title: Smartphone App on the Quality of Pedestrian Experience in Cities
 - Developed and tested a mobile tracking app to study walking behavior in neighborhoods
- May - Dec 2017 **Undergraduate Thesis, Department of Civil & Environmental Engineering**
Urban Design Lab, Seoul National University, Seoul, South Korea
- Thesis title: Perceptive Images and the Place Identity of 'Shin-rim' College Neighborhood by Mapping the Pedestrian Experiences of College Students

PROFESSIONAL EXPERIENCE

- May - Aug 2020 **Intern in Research & Analytics / Transportation & Mobility Services**
Atlanta Regional Commission Atlanta GA, USA
- Online data management and processing for public data provision
 - Developed tools to automate data processing on ArcGIS
 - Spatial analysis for equitable commuting in the COVID-19 pandemic
- 2017 - 2019 **Urban Planner & Design Researcher**
YANGJI.CO. Seoul, South Korea
- Designed interactive tools (3D model, mobile app) for citizen engagement and collected neighborhood data in close interaction with local residents
 - Shaped a framework for Seoul Rooftop Commons and created a database of rooftops using GIS
 - Organized an international participatory workshop to revitalize a neighborhood with sustainable tourism strategies

PUBLICATIONS

- Andris, C and Lee, S. 2021. **Planning for Romantic Relationships: A Case Study of a U.S. College Town.** *Journal of Urbanism*.
- Chande, A., Lee, S., Harris, M., Nguyen, Q., Beckett, S., Hilley, T., Andris, C., Weitz, J. 2020. **Real-time, interactive website for US-county-level COVID-19 event risk assessment.** *Nature Human Behavior*.
- Lee, D. and Lee, S. 2019. **Inferring the character of urban commercial areas from age-biased online search results: how place recommendation data can reveal dynamic Seoul neighborhoods.** *In Adjunct Proceedings of the 2019 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2019 ACM International Symposium on Wearable Computers (UbiComp/ISWC '19 Adjunct)*

PRESENTATIONS

- Lee, S. 2022. **How Urban Activism Evolves with Social Media: A Case Study of the Anti-Redevelopment Activism in Seoul, South Korea.** *American Association of Geographers 2022 Annual Meeting*, New York NY, USA (forthcoming)
- Lee, S. and Andris, C. 2021. **Estimating Diversity at Points of Interest (POIs) in Atlanta, Georgia using Origin-Destination Trip Data.** *Association of Collegiate Schools of Planning (ACSP) 2021 Annual Conference*, Virtual.
- Liang, X., Lee, S., Andris, C., Chen, H., and De La Pena, B. 2020. **Characteristics of Individuals with Global, Local or Glocal Connectivity Patterns.** *North American Meetings of the Regional Science Association International (NARSC)*, Virtual

TEACHING EXPERIENCE

2021 **Teaching Assistant**
University of California - Irvine, Irvine CA, USA
School of Information and Computer Science
Course title: ICS 5 Global Disruption and Information Technology

EXTRACURRICULAR EXPERIENCE

- 2019 **Student Planning Association - Social Committee** Atlanta GA, USA
- Organized and managed social events for the students in the city and regional planning program at Georgia Tech
- 2019 **Asian Hub** Seoul, South Korea
- Volunteered in providing education and job training for female marriage-immigrants
- 2017 **Participatory planning workshop 'Delta V'** Versoix, Switzerland
- A community workshop for revitalization of Versoix organized by URBZ group
 - Interviewed the local community and created a collage artwork of the imagined Versoix for the final exhibition
- 2017 **Humboldt Summer and Winter University** Berlin, Germany
Humboldt University of Berlin, Dept. of Geography
- Course Title: European City and Regional Development Planning – The Case of Berlin
 - Grade: A+

HONORS / AWARDS

- 2019 **Georgia Planning Association Fellowship** Georgia Institute of Technology
- Graduate assistantship offer funded by Georgia Planning Association (\$40,000)
- 2014 - 2017 **Scholarship for Outstanding Grades** Seoul National University
- 2016 **SNU Development Fund Scholarship** Seoul National University

SKILLS

Data Collection

Online Data Mining
Survey, Interview
Mobile App and GPS data
Diary Studies
Cognitive Mapping

Data Science / Visualization

Python, R, Tableau
Machine Learning
Natural Language Processing

Mapping / Spatial Analysis

ArcGIS
QGIS
Mapbox

Design

Adobe Studio
InDesign
Illustrator
Photoshop

Urban Planning

Community Development Strategy
Participatory Design/Planning
Citizen Engagement
Mater Planning

Language

English
Korean