

JINHYUNG LEE

Department of Geography
The Ohio State University
1036 Derby Hall, 154 North Oval Mall, Columbus OH, 43210

12/17/2018
lee.7738@osu.edu

EDUCATION

- 2016 – Present. **Ph.D. in Geography** The Ohio State University
- Advisor: Dr. Harvey J. Miller
2016. **M.A. in Geography (Specialization in GIScience)** Korea University
- Advisor: Dr. Youngho Kim
- Thesis: An analysis of retail location decision to reflect corporate value platform using Bayesian spatio-temporal modeling approach
2012. **B.A. in Geography (Magna cum laude)** Korea University
Second Major: Business Administration

RESEARCH AND TEACHING INTERESTS

- **Empirical:** Accessibility, mobility, sustainable transportation and social outcomes, urban science
- **Methodological:** Geographic information science, time geography, spatio-temporal modeling and analysis, moving object analytics

RESEARCH EXPERIENCES

- **Graduate Research Associate** CURA, The Ohio State University (2016 – Present)
Research Projects
 - Mapping and measuring spatial polarization in U.S. cities using housing transaction data
- Dr. Elena Irwin, Dr. Harvey Miller, Dr. Nicholas Irwin
 - Infant mortality research partnership (Task 3)
- PI: Dr. Elisabeth Root
 - Phase 1: Spatial analysis of infant mortality in Ohio
 - Phase 2: Web GIS-based application for infant mortality/opportunity index
 - Defining and mapping recovery deserts for analyzing opioid addiction in Ohio
- Dr. Harvey Miller, Dr. Ayaz Hyder
- **Invited Intern** ESRI Korea, Technical Marketing Team (2014)
Research Projects
 - Organizing emergency management system for sinkhole using volunteered geographic information
 - Spatio-temporal mapping and analysis of Ebola disease using ArcGIS Online
 - Creating web-based story map for fall foliage tourism in Korea using ArcGIS Online
- **Graduate Research Associate** GIS Lab., Korea University (2014 – 2016)
Research Projects
 - Space-time analyses of minority groups in modern Korea: Hybrid analysis of quantitative geography and qualitative history methodologies on women, ethnic minorities, and disabled people in Japanese colonial era using census information and historical literature

TEACHING EXPERIENCES

- **Courses taught** (as a guest lecturer)

Graduate-level courses

- GEOG 5226: Spatial simulation and modeling in GIS (for Dr. Harvey Miller) 2018 Fall
- GEOG 5201: Geovisualization (for Dr. Morteza Karimzadeh) 2018 Spring

PUBLICATIONS

- **Published or in press**

- 2018 **Jinhyung Lee** & Harvey J. Miller, "Measuring the impacts of new public transit services on space time accessibility: An analysis of transit system redesign and new bus rapid transit in Columbus, Ohio, USA", *Applied Geography*, 93, 47–63.
- 2018 **Jinhyung Lee** & Youngho Kim, "A Newcomer" vs. "First mover": Retail Location Strategy for Differentiation", *The Professional Geographer*, 70(1), 22–33.
- 2015 Jong-Geun Kim, **Jinhyung Lee**, & Sunyong Ko, "Optimization of Electric Transit Bus Recharging Stations in Jeju", *Journal of the Korean Urban Geographical Society*, 18(2), 97–109.
- 2014 **Jinhyung Lee** & Youngho Kim, "Location Suitability Assessment on Marine Afforestation Using Habitat Evaluation Procedure (HEP) and 3D Kriging: A Case Study on Jeju, Korea", *Journal of the Economic Geographical Society of Korea*, 17(4), 771–785.
- 2013 **Jinhyung Lee**, Sungbin Kim, & Youngho Kim, "Modeling Bike Road Route for Commuting Transportation to Increase Bike Use in Everyday Life: Case Study of Seoul", *Journal of the Korean Urban Geographical Society*, 16(3), 117–127.

- **Submitted or in preparation**

- 2019 **Jinhyung Lee** & Harvey J. Miller, "Analyzing collective accessibility using average space-time prisms", *Transportation Research Part D: Transport and Environment* (in revision).
- 2019 **Jinhyung Lee**, Harvey J. Miller, Nicholas B. Irwin & Elena G. Irwin, "The new urban crisis: Spatial polarization of housing location premium in Columbus, Ohio, 2000 – 2015", *The Professional Geographer* (planning to submit).

PROCEEDINGS OF CONFERENCES

- 2018 **Jinhyung Lee** & Harvey J. Miller, 2018, "Measuring the impacts of new public transit services on space-time accessibility", *Transportation Research Board 97th Annual Meeting*, Transportation Research Board, No. 18-02609. 2018.

PRESENTATIONS

- 2018 **Jinhyung Lee** & Harvey J. Miller, "Measuring and comparing individual and collective accessibility using average space-time prisms", *GIScience 2018 10th International Conference on Geographic Information Science*, Melbourne, Australia, August 29. (presented by Dr. Miller).
- 2018 **Jinhyung Lee** & Harvey J. Miller, "Measuring and comparing individual and collective accessibility using average space-time prisms", *Mobile Tartu 2018*, Tartu, Estonia, June 27. (presented by Dr. Miller).
- 2018 **Jinhyung Lee**, Harvey J. Miller, Nicholas B. Irwin & Elena G. Irwin, "Measuring spatial polarization and inequality in cities using housing transaction big data", *2018 AAG Annual Meeting*, New Orleans, LA, USA, April 14.

- 2018 **Jinhyung Lee** & Harvey J. Miller, “Measuring the impacts of new public transit services on space-time accessibility”, *Transportation Research Board 97th Annual Meeting*, Washington, D.C., USA, January 8.
- 2017 **Jinhyung Lee** & Harvey J. Miller, 2017, “Measuring Changes in Space-time Accessibility before and after Transportation Innovations”, *2017 AAG Annual Meeting*, Boston, MA, USA, April 5.
- 2015 **Jinhyung Lee**, 2015, “An Analysis of Coffee Shop Location Decision to Reflect Corporate Value Platform Using Bayesian Spatio-temporal Modeling”, *Conference of Association of Korean Geographers*, Kangwon National University, Korea, November 13.
- 2014 **Jinhyung Lee**, 2014, “Multi-criteria Decision Analysis on Location of Marine Afforestation in Jeju, Korea”, *Conference of Association of Korean Geographers*, Korea University, Korea, November 15.
- 2014 **Jinhyung Lee**, 2014, “Location Suitability Analysis for Sea Forest in Jeju, Korea: Using AHP applied HSI and Kriging”, *2014 Annual Meeting of Korean Geographers*, Seoul National University, Korea, June 20–21.
- 2014 **Jinhyung Lee**, 2014, “Optimal Bike Route for Commuting – Connecting Working-age Population Clusters to Job Clusters: Case Study of Seoul, Korea”, *2014 ESRI International User Conference*, San Diego, CA, USA, July 14–18.

HONORS AND AWARDS

2019	Travel Grant Award	Korean Transportation Association in America
2018	Student Paper Award	Korea-America Association for Geospatial and Environmental Sciences
2016	Robinson Research Award	The Ohio State University
2014	ESRI Young Scholar Award	ESRI
2014 – 2016	Graduate scholarship	Korea University

SERVICES

- **Journal reviewer**
International Journal of Geographical Information Science 2018 – Present
- **Department/School**
Co-organizers, Geography Department Spring Panel 2018 Spring
- **Conference**
Session chair, Urban Analysis session, AAG annual meeting 2018
Panel discussant, Public transit accessibility session, TRB annual meeting 2018

PROFESSIONAL DEVELOPMENTS

- **Research**
 - Measuring and interpreting interactions between and among moving objects, NSF-sponsored workshop (BCS #1560727), The University of Texas at Austin, November 10–11, 2016
 - Analyzing movement and mobility within geographic context, NSF-sponsored workshop (BCS #1560727), The Ohio State University, May 11–12, 2017

CERTIFICATIONS

- **Teaching Certificate** (Geography, Secondary Education), Ministry of Education, Korea