

# Yunsik Kim

## Curriculum Vitae

### The University of North Carolina at Charlotte

Department of Earth, Environmental and Geographical Sciences

9201 University City Blvd

Charlotte, NC 28223, USA.

Email: [ykim89@charlotte.edu](mailto:ykim89@charlotte.edu)

Homepage: <https://ykimgeo.github.io/>

Google Scholar: [Link](#)

LinkedIn: [Link](#)

### EDUCATION

---

#### Ph.D. Student (Major: Geography)

Aug 2024–Present

Department of Earth, Environmental and Geographical Sciences, The University of North Carolina at Charlotte, Charlotte, NC, USA.

Advisor: Dr. Youngseob Eum

Cumulative GPA: 4.0/4.0

#### Master of Geography

Sep 2021–Aug 2023

Department of Geography, Dongguk University, Seoul, South Korea

Advisor: Dr. Byungyun Yang

Thesis: *Analysis of Changes in Urban Activity Patterns After the COVID-19 Pandemic Using GeoAI and SNS data* (<https://doi.org/10.23216/dgu.000000086806.11020.0000530>)

Cumulative GPA: 4.5/4.5

#### Bachelor of Arts in Geography Education

Mar 2016–Aug 2021

Department of Geography Education, Dongguk University, Seoul, South Korea

Cumulative GPA: 4.0/4.5 (Magna Cum Laude)

### RESEARCH EXPERIENCE

---

#### Research Assistant

Aug 2024–Present

*Department of Earth, Environmental and Geographical Sciences, The University of North Carolina at Charlotte, Charlotte, NC, USA.*

#### Visiting Scholar

Aug 2022–Mar 2023

*Department of Natural Sciences, University of West Georgia, Carrollton, GA, USA.*

#### Graduate Research Assistant

Sep 2021–Aug 2023

*Department of Geography, Dongguk University*

#### Researcher (Part-time)

Jan 2020–Dec 2021

*National Institute of Ecology, Ministry of Environment of Korean Government*

#### Undergraduate Research Assistant

Sep 2019–Aug 2021

*Department of Geography Education, Dongguk University*

### TEACHING EXPERIENCE

---

#### Co-Instructor (Part-time), GEO2045 (GIS)

Fall 2023

*Department of Geography Education, Dongguk University*

<b>Lecturer (Part-time)</b> , Social Studies <i>Howon Middle School, Uijeongbu, South Korea</i>	Aug 2023
<b>Teaching Assistant</b> , GEO4063 (GIS and Spatial Analysis) <i>Department of Geography Education, Dongguk University</i>	Spring 2022
<b>Student Teacher</b> , Geography <i>Osong High School, Cheongju, South Korea</i>	May 2021
<b>Teaching Assistant</b> , GEO2046 (Cartography) <i>Department of Geography Education, Dongguk University</i>	Spring 2021

## PROFESSIONAL EXPERIENCE

---

<b>Administrative Assistant</b> <i>Department of Environmental &amp; Biological Chemistry, Chungbuk National University, Cheongju, South Korea</i>	Mar 2024–Jun 2024
---	-------------------

## PUBLICATIONS

---

Underline: Corresponding Author

### Peer-Reviewed Articles

- [4] Yang, B., **Kim, Y.**, Kim, T. H. & Park, J. K. (2024). Investigating quantitatively the root causes of non-implementation of public surveying performance review and deriving institutional improvement measures. *Journal of the Korean Society of Surveying, Geodesy, Photogrammetry and Cartography*, 42(3), 213–224. <https://doi.org/10.7848/ksgpc.2024.42.3.213>
- [3] **Kim, Y.** (2023). Prediction of traffic congestion using a time-series model and spatiotemporal big data: A case study of the Atlanta Downtown Connector. *The Geographical Bulletin*, 64(2), 93–102. <https://digitalcommons.kennesaw.edu/thegeographicalbulletin/vol64/iss2/7>
- [2] **Kim, Y.** & Yang, B. (2023). Extracting urban areas of interest using HDBSCAN clustering method. *Journal of the Korean Cartographic Association*, 23(1), 67–77 (in Korean with English abstract). <https://doi.org/10.16879/jkca.2023.23.1.067>
- [1] Seong, J., **Kim, Y.**, Goh, H., Kim, H. & Stanescu, A. (2023). Measuring traffic congestion with novel metrics: A case study of six U.S. metropolitan areas. *ISPRS International Journal of Geo-Information*, 12(3), 130. <https://doi.org/10.3390/ijgi12030130>

### None Peer-Reviewed Reports

- [3] Kim, T. & **Kim, Y.** (2021). Hanbando Wetland—Topography, Geological Features, and Deposits. In Wetlands Research Team, National Institute of Ecology (Ed.), *4th Intensive Survey on the Wetland Protected Areas ('21)* (pp. 1293–1317). Seochon: National Institute of Ecology (in Korean).
- [2] Kim, T. & **Kim, Y.** (2020b). Topography/Landscape. In National Institute of Ecology (Ed.), *2020 Ecological Survey on National Coastal Sand Dunes (Jeju Island)* (pp. 21–378). Seochon: National Institute of Ecology (in Korean).

- [1] Kim, T. & **Kim, Y.** (2020a). Sinbulsan Wetland—Topography, Geological Features, and Deposits. In Wetlands Research Team, National Institute of Ecology (Ed.), *3rd Intensive Survey on the Wetland Protected Areas ('20)* (pp. 3–23). Seochon: National Institute of Ecology (in Korean).

## SCHOLARLY PRESENTATIONS

---

### Oral Presentations

- [9] **Kim, Y.** (2024, November 20). *Exploring Telehealth Accessibility for Mental Healthcare in Mecklenburg County, North Carolina*. 2024 GIS Day, University of North Carolina at Charlotte, Charlotte, NC, USA.
- [8] **Kim, Y.** & Yang, B. (2023, October 20–23). *Analysis of Changes in Urban Activity Patterns After the COVID-19 Pandemic Using GeoAI and SNS Data*. 2023 15th Korea-China-Japan Joint Conference on Geography, Seoul, South Korea.
- [7] **Kim, Y.**, Seong, J. & Yang, B. (2023, June 17). *Developing Traffic Congestion Index Based on Space Time Cube and Predicting Vehicle Crashes Prone Areas Using Machine Learning*. 2023 Summer Conference of the Korean Urban Geographical Society, Cheongju, South Korea.
- [6] **Kim, Y.**, Seong, J., Goh, H. & Stanescu, A. (2023, March 23–27). *Modeling the Probabilities of Vehicle Crashes Using Machine Learning Methods with Congestion Amounts and Spatiotemporal Features at Montgomery County, Maryland*. 2023 Annual Meeting of the American Association of Geographers (AAG), Denver, CO, USA.
- [5] Seong, J., **Kim, Y.**, Goh, H. & Stanescu, A. (2023, March 23–27). *Development of a Traffic Congestion Index from Spatiotemporal Big Data for Urban Transportation Research and Applications*. 2023 Annual Meeting of the American Association of Geographers (AAG), Denver, CO, USA.
- [4] Goh, H., Seong, J., **Kim, Y.** & Stanescu, A. (2023, March 23–27). *Does Traffic Congestion Increase Vehicle Crashes? A Regional Scale Study with a Novel Congestion Index and Machine Learning Methods*. 2023 Annual Meeting of the American Association of Geographers (AAG), Denver, CO, USA.
- [3] **Kim, Y.** & Yang, B. (2022, December 10). *Analysis of Spatiotemporal Change in the Urban Landscape Using GeoAI and Social Media Images: Comparison of the Period Before and After COVID-19*. 2022 Winter Conference of the Korean Urban Geographical Society, Seoul, South Korea.
- [2] **Kim, Y.**, Goh, H., Seong, J. & Stanescu, A. (2022, November 20–21). *Development of a Method to Summarize Metropolitan Traffic Amount*. 2022 Annual Meeting of the South-eastern Division of American Association of Geographers (SEDAAG), Atlanta, GA, USA.
- [1] **Kim, Y.** & Yang, B. (2022, February 25–March 1). *Exploring the Spatiotemporal Patterns of Urban Characteristics Using Social Big Data and GeoAI*. 2022 Annual Meeting of the American Association of Geographers (AAG), Virtual.

## Poster Presentations

- [1] Kim, S., **Kim, Y.**, Lee, T., Yang, B., Park, J. K. & Kim, T. H. (2024, June 27–28). *Analysis of Non-implementation of Public Surveying Performance Review for Institutional Improvement*. 2024 Annual Meeting of the Korean Geographical Society, Seoul, South Korea.

## AWARDS AND HONORS

---

**First Place**, Presentation Competition on GIS Day 2024, November 2024  
GIS Day Organization Committee, University of North Carolina at Charlotte.

**Certificate of Appreciation**, June 2024  
The Korean Geographical Society.

**Young Geographers Award–Best Paper**, October 2023  
The 15th Korea-China-Japan Joint Conference on Geography.

**Geospatial Information Workforce Development Scholarship**, Fall 2021–Spring 2023  
Ministry of Land, Infrastructure and Transport of Korean Government.

**Dongguk Future Leaders Scholarship**, Fall 2021  
Graduate School of Dongguk University.

**Magna Cum Laude**, August 2021  
Department of Geography Education, Dongguk University.

**Academic Scholarship**, Spring 2021  
Department of Geography Education, Dongguk University.

**Off-Campus Scholarship**, Fall 2020  
Silla Culture Scholarship Foundation.

**Academic Scholarship**, Spring 2020  
Department of Geography Education, Dongguk University.

**Academic Scholarship**, Fall 2019  
Department of Geography Education, Dongguk University.

## ACADEMIC & COMMUNITY SERVICE

---

**Administrative Manager, Organizing Committee** 2023  
The 15th Korea-China-Japan Joint Conference on Geography, Seoul, South Korea

**President of Student Council** 2020  
Department of Geography Education, Dongguk University

**Auxiliary Police** Jan 2017–Oct 2018  
Military Service at Korean National Police Agency

## PROFESSIONAL SOCIETY MEMBERSHIPS

---

- [Association of American Geographers \(AAG\)](#)
- [Korean-American Scientists and Engineers Association \(KSEA\)](#)
- [Korea-America Association for Geospatial and Environmental Sciences \(KAGES\)](#)
- [The Korean Geographical Society \(KGS\)](#)

## CERTIFICATES & TECHNICAL SKILLS

---

<b>Teacher's Certificate</b> , the Secondary School Teacher (Grade II) of Geography Ministry of Education of Korean Government	2021
<b>Engineer Surveying Geo-Spatial Information</b> Human Resources Development Service of Korea	2021
<b>Information Technology Qualification (ITQ)</b> , Office Automation (OA) Master Korea Productivity Center	2018
<b>Word Processor User Level-1</b> The Korea Chamber of Commerce & Industry	2017
<b>Strong Skill with GIS Softwares: ArcGIS, QGIS</b>	
<b>Strong Skill in Programming Languages: Python, R</b>	