Chaeyeon ("Che-Yon") Han

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PROFILE

A Ph.D. candidate in School of City and Regional Planning, Georgia Tech, with research interests in **Urban Data Analytics, Urban and Geo AI, Climate-induced Displacement, Climate Adaptation, and Human Mobility.**

EDUCATION

Ph.D. in City and Regional Planning — Aug. 2022 – present
Georgia Institute of Technology

Master of Science in Urban Analytics (MSUA) — Aug. 2023 - present
Georgia Institute of Technology

Master of Urban Planning (MUP) — May 2022
University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science and Engineering — Aug. 2020
(Double major: Urban Planning and Engineering)
Yonsei University, Seoul, Republic of Korea

AFFILIATION

Center for Urban Resilience and Analytics (CURA), Georgia Tech — Aug. 2022 – present
Graduate Research Assistant
Advisor: Professor Subhrajit Guhathakurta

CyberGIS Center for Advanced Digital and Spatial Studies, UIUC — Sep. 2021 – May 2022
Research Assistant
Advisor: Professor Shaowen Wang, Teaching Assistant Professor Su Han

Environmental Spatial Informatics & Disaster Prevention Lab, Yonsei University — Jan. – Oct. 2020
Undergraduate Research Assistant (Internship)
Advisor: Professor D.K. Yoon

PUBLICATIONS

Working Papers

1. (Under Review) Koo, BW., Ki, D., Kim, Y., **Han, C.**, Lee, S. Leveraging AI for Plan Evaluation: Assessing ChatGPT's Potential for Flood Resilience Scorecard. Journal of Environmental Planning and Management.
2. (Under Review) **Han, C.**, Guhathakurta, S., Hittinger, E., Liu, K., Phoung, S., Williams, E. Unraveling Interactions Between Telework and Vehicle Use Among Vehicle-Owning Households. Environmental Research and Infrastructure Sustainability.
3. (Under Review) Lee, S., Koo, BW., **Han, C.**, Ki, D., Kim, Y. When Liveliness Meets Greenery: The Moderating Role of Tree Visibility in Traffic Safety for Older Adults.
4. (Working Paper) Han, C., Guhathakurta, S. Can We Learn from Prior Hurricanes? Cross-Hurricane Transferability of Destination Choice Models Using Large-Scale Mobility Data.
5. (Working Paper) **Han, C.**, Guhathakurta, S. From Evacuation to Relocation: Hurricane Mobility Sequences and Climate Migration Destination Choice.
6. (Working Paper) Park, S., **Han, C.**, Lieu, S. Influence of Travel Mode and Heat Sensitivity on Streetscape Preferences Related to Thermal Comfort.

7. (Working Paper) Lieu, S., **Han, C.**, Guhathakurta, S. Different Acceptable Travel Times Across Amenity Types: An Empirical Assessment Using U.S. Mobility Data.

Peer-reviewed Journal Articles

1. Liu, K., Guhathakurta, S., **Han, C**., Hittinger, E., Phoung, S., & Williams, E. (2026) Online Shopping Time-Efficiency: An Experience Curve Approach. Time and Society.
2. **Han, C.**, Guhathakurta, S. (2026) Where do evacuees go? Understanding Evacuation Destinations in Georgia during Hurricane Milton. International Journal of Disaster Risk Reduction.
3. Ki, D., Lee, S., **Han, C.**, Kim, Y., Koo, BW., Hwang, U. (2026) Does Weather Matter? Examining Measurement Bias in Street View Image-based Urban Perception Assessments. Computers Environment and Urban Systems.
4. Liu, K., Guhathakurta, S., **Han, C**., Hittinger, E., Phoung, S., & Williams, E. (2025) The Impact of Online Shopping on Retail Building Space and Energy Demand in the US. Energies.
5. **Han, C.**, Lieu, S., Guhathakurta, S. (2025) Do Streetscapes Still Matter for Customer Ratings of Eating and Drinking Establishments in Car-Dependent Cities? Journal of Urban Design.
6. **Han, C.**, Guhathakurta, S., Hittinger, E., Liu, K., Phoung, S., Williams, E. (2025) Empirical Assessment of Teleworking's Impact on Residential Energy Consumption in the U.S.: Multilevel Modeling and Time Use Comparisons. Environmental Research and Infrastructure Sustainability.
7. **Han, C.**, Koo, B., Hwang, U. (2025) Mental Health Facility Visits Before and after the Outbreak of Covid-19: The Role of Walkable Built Environment. Journal of Transport & Health.
8. **Han, C.**, Hwang, U., Guhathakurta, S. (2024) Can Thanksgiving Destinations Predict Climate Migration Patterns? Findings.
9. **Han, C.**, Seshadri, P., Ding, Y., Posner, N., Koo, B., Agrawal, A., Lerch, A., Guhathakurta, S. (2024) Understanding Pedestrian Movement Using Urban Sensing Technologies: The Promise of Audio-based Sensors. Urban Informatics.
10. Liu, K., Guhathakurta, S., **Han, C**., Hittinger, E., Phoung, S., & Williams, E. (2024). How much is US Office Building Space Reduced per Teleworker? Findings.
11. **Han. C.,** Kim. W., Yoon. D.K., (2021) A Comparative Analysis of Trends of Disaster Risk Research using Topic Modeling & Network Analysis. Journal of the Korean Society of Hazard Mitigation, Vol.21, No.5, pp.1-10. ISSN 2287-6723

Peer-reviewed Conference Papers

1. Kim, Y., **Han, C.**, Sarode, A., Posner, N., Guhathakurta, S., & Lerch, A. (2025) Audio-Based pedestrian detection in the presence of vehicular noise. Detection and Classification of Acoustic Scenes and Events 2025.
2. Han, SY., Kim, JS., Jiang, Y., Kang, JY., Park, J., **Han, C.**, Michels, A., Wang, S. (2024) CyberGIS-Vis for Democratizing Access to Scalable Spatiotemporal Geovisual Analytics: A Case Study of COVID-19. Proceedings of the 5th ACM SIGSPATIAL International Workshop on Spatial Computing for Epidemiology.
3. Seshadri, P., **Han, C.**, Koo, B., Posner, N., Guhathakurta, S., & Lerch, A. (2024). ASPED: An Audio Dataset for Detecting Pedestrians. 2024 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP).

Academic Reports

1. Han, C., Chivilkar, S., & Guhathakurta, S. (2025). A pilot experimental project for predicting pedestrian flows using computer vision and deep learning. United States. Department of Transportation. University Transportation Centers (UTC) Program. https://rosap.ntl.bts.gov/view/dot/87067

CONFERENCE PRESENTATIONS

* presented by co-author

1. (Expected) **Chaeyeon Han,** Subhrajit Guhathakurta, From Evacuation to Relocation: Hurricane Mobility Sequences and Climate Migration Destination Choice. Association of Collegiate Schools of Planning. Pittsburgh, USA. October 8-10, 2026.
2. **Chaeyeon Han,** Subhrajit Guhathakurta, Do Mobility Patterns Generalize across Disasters? Evidence from Hurricanes and Wildfires. 2026 AAG Annual Meeting. San Francisco, USA. March 17-21, 2026.
3. **Chaeyeon Han,** Subhrajit Guhathakurta, Where Do Evacuees Go? Understanding Evacuation Destination Choices Using Point-of-Interest Visitation Data. Multiplied Displacement 2026: The Climate Nexus, New Orleans, USA. January 15-17, 2026.
4. **Chaeyeon Han,** Subhrajit Guhathakurta, Where do evacuees go? Understanding Evacuation Destinations in Georgia during Hurricane Milton. Association of Collegiate Schools of Planning. Seattle, USA. October 23-26, 2025.
5. **Chaeyeon Han,** Animesh Agrawal, Jing Luan, Seung Jae Lieu, Subhrajit Guhathakurta, Alexander Lerch. Pedestrian Flow Prediction using Video and Audio Sensing Techniques. AI and the City. Bangalore, India, January 4-5, 2025.
6. **Chaeyeon Han,** Animesh Agrawal, Jing Luan, Seung Jae Lieu, Subhrajit Guhathakurta, Alexander Lerch. Pedestrian Flow Prediction using Video and Audio Sensing Techniques. Association of Collegiate Schools of Planning. Seattle, USA. November 7-9, 2024.
7. **Chaeyeon Han,** Seung Jae Lieu*, Subhrajit Guhathakurta. Aesthetic Places and Travel Destination Choices. Association of Collegiate Schools of Planning. Seattle, USA. November 7-9, 2024.
8. **Chaeyeon Han,** Uijeong Hwang, Subhrajit Guhathakurta. Exploring the Geography of Social Ties in the U.S. based on Thanksgiving Destinations. Association of Collegiate Schools of Planning. Chicago, USA. October 19-21, 2023.
9. **Chaeyeon Han,** Bon Woo Koo, and Uijeong Hwang. Mental Health Facility Visits Before and After the Outbreak of Covid-19: The Role of Neighborhood Built Environment. 2023 AAG Annual Meeting. Denver, USA. March 23, 2023.
10. **Chaeyeon Han**, Su Han*, Furqan Baig, and Shaowen Wang. A CyberGIS-enabled Pandemic Warning System Using Social Media Data. 2022 AAG Annual Meeting. New York City, USA. Feb. 25- Mar. 1, 2022. (Virtual)
11. Su Han*, **Chaeyeon Han**, Furqan Baig, Mike Qin, Chang Liu, and Shaowen Wang. Recent Advances in CyberGIS-Viz for Democratizing Access to Scalable Geovisualization. A2022 AAG Annual Meeting. New York City, USA. Feb. 25- Mar. 1, 2022. (Virtual)
12. Woosik Kim*, **Chaeyeon Han**, D.K. Yoon, A Comparative Analysis of Trends of Disaster Risk Research using Topic Modeling & Network Analysis. Journal of the Korean Society of Hazard Mitigation [KOSHAM]. August 20-21, 2020 (Virtual)

CONFERENCE POSTERS

1. **Chaeyeon Han**, Subhrajit Guhathakurta. Where do evacuees go? Understanding Evacuation Destinations in Georgia during Hurricane Milton. MR2025: Mobility, Adaptation, and Wellbeing in a Changing Climate. Columbia University, New York City. June 16-18, 2025.
2. **Chaeyeon Han**, Seung Jae Lieu, Subhrajit Guhathakurta. The Interplay of Aging Populations and Urban Agglomeration: Assessing Economic Specialization and Densification Trends in U.S. Cities. Association of Collegiate Schools of Planning. Chicago, October 19-21. 2023.
3. Mike Qin, Su Han, **Chaeyeon Han**, Chang Liu, and Shaowen Wang. Application of Multi-scale geographically weighted regression (MGWR) on HIV. GIS day, University of Illinois at Urbana Champaign, November 2021.

INVITED TALKS & PANELS

1. *Panel Talk for Brook Byers Institute for Sustainable Systems (BBISS), Georgia Tech*
   2026 Sustainability Showcase - From Big Bets To Local Solutions: Tech's Role in Resilience
   Subhrajit Guhathakurta, Tony Giarrusso, Rounaq Basu, Perry Yang, Yiyi He, **Chaeyeon Han**, "The Role of Geospatial Technologies and AI in Advancing Resilient Urban Futures", Feb. 9 (2026)
2. *Guest Lecture for Tokyo Smart City Studio, Georgia Tech*
   Chaeyeon Han, "Modeling Perception of Urban Environment: A Use Case in Bancho Area of Tokyo", Feb. 4 (2026)
3. *Guest Lecture for GEOG 106 Geographies of Globalization, UIUC*
   Chaeyeon Han, "How did Japanese Occupation reform the City of Seoul? The Discourse around Japanese Occupation", Nov. 4 (2021)

RESEARCH PROJECTS

22. Data Centers, Housing Price, and Migration Apr. 2026 - present

Co-author: Eunjee Son (Georgia Tech)

- Estimated associations between large-scale data center introduction and local migration rates and housing prices using consumer address history and housing transaction data.

21. Evaluating Google Street View for First-Floor Elevation Measurement Feb. 2026- present

Co-authors: Dr. Youjung Jim (University of South Florida), Dr. Donghwan Ki (MIT Senseable City Lab), Dr. Bon Woo Koo (Yonsei University), Dr. Sungmin Lee (Texas A&M University)

- Analyzing detectability, accuracy, applicability, and scalability of Street View Images as a source of first-floor elevation evaluation compared with mobile LiDAR.

20. Climate Migration Indicators & Climate Migration Prediction Case Study with City of Cincinnati and ICLEI Dec. 2025 - present

Collaboration: City of Cincinnati, ICLEI

Advisors/Co-authors: Dr. Karen Chapple (University of Toronto), Dr. Subhrajit Guhathakurta

- Conducted bibliometric review of climate migration indicators and forecast models.
- Using publicly available data sources (e.g., IRS SOI, ACS county-to-county migration, PUMS, FEMA, NOAA) to estimate and project the number of climate migrants in the City of Cincinnati and their profiles.

19. Does weather matter? Examining measurement bias in street view image-based urban perception assessments Jul. 2025 - Mar. 2026

Co-authors: Dr. Donghwan Ki (MIT Senseable City Lab), Dr. Bon Woo Koo (Yonsei University), Dr. Youjung Jim (University of South Florida), Dr. Sungmin Lee (Texas A&M University)

- Examined the weather-induced measurement bias in street view image perception scores in LA, Seattle, and Portland, US.
- Discussed methodological guidance for valid perception analyses using street view imagery.

18. From Evacuation to Relocation: Hurricane Mobility Sequences and Climate Migration Destination Choice Jun. 2025 - present

Center for Urban Resilience and Analytics, Georgia Tech

Advisor: Dr. Subhrajit Guhathakurta, Co-advisors/Committee: Dr. Karen Chapple (University of Toronto), Dr. Brian An (Georgia Tech/KAIST), Dr. Yiyi He (Georgia Tech)

- Employing individual level address-to-address migration history data to find migration patterns induced by Hurricanes Helene and Milton.
- Empirical testing of social ties and socioeconomic homophily explains climate migrants' destination choices.

17. When Liveliness Meets Greenery: The Moderating Role of Tree Visibility in Traffic Safety for Older Adults Apr. 2025- present

Co-authors: Dr. Sungmin Lee (Texas A&M University), Dr. Bon Woo Koo (Yonsei University), Dr. Donghwan Ki (MIT Senseable City Lab), Dr. Youjung Kim (University of South Florida)

- Analyzed how perceived liveliness on streets associated with traffic accident frequency in Seoul.
- Examined the moderating effect of tree visibility on relationship between liveliness and traffic accidents.
- Manuscript under review

16. Influence of Travel Mode and Heat Sensitivity on Streetscape Preferences Related to Thermal Comfort Apr. 2024 - present

Advisor: Dr. Gulsah Akar, Co-authors: Shinah Park, Seung Jae Lieu

- Conducted a travel behavior survey (148 respondents) that includes pairwise image selection of streetscapes.
- Examined how attitude towards heat associates with preference of streetscapes.

15. Can We Learn from Prior Hurricanes? Cross-Hurricane Transferability of Destination Choice Models Using Large-Scale Mobility Data May 2025 - present

Center for Urban Resilience and Analytics, Georgia Tech

Advisor: Dr. Subhrajit Guhathakurta

- Testing generalizability of mobility patterns across three hurricane events and employing explainable AI methods to identify factors in hurricane evacuation destination choices, with focus on social ties.
- Utilizing mobile GPS-derived POI foot traffic data from Advan Research

14. Where do evacuees go? Understanding Evacuation Destination Choices in Georgia during Hurricane Helene and Milton Dec. 2024 - present

Center for Urban Resilience and Analytics, Georgia Tech

Advisor: Dr. Subhrajit Guhathakurta

- Utilizing mobile GPS-derived POI foot traffic data from Advan Research, examined where Florida residents relocated during Hurricane Milton, and the factors associated with the destination choices.
- Investigated whether evacuees from more severely impacted areas exhibit different destination choices compared to those from less affected regions.
- Published in the International Journal of Disaster Risk Reduction.

13. Leveraging AI for Plan Evaluation: Assessing ChatGPT's Potential for Flood Resilience Scorecard Aug. 2024 - present

Co-authors: Dr. Bon Woo Koo (Yonsei University), Dr. Youjung Kim (University of South Florida), Dr. Donghwan Ki (Ohio State University), Dr. Sungmin Lee (Texas A&M University)

- Experimented ChatGPT as a policy evaluation tool, especially as a flood resilience scorecard evaluator.
- Manuscript under review

12. Pedestrian Flow Prediction using Video and Audio Sensing Techniques May. 2024 - present

Center for Spatial Planning Analytics and Visualization, Georgia Tech

Advisor: Dr. Subhrajit Guhathakurta

- Experimenting how much audio data can improve performance of video-based pedestrian flow prediction.
- Published in Urban Informatics. Funded by the U.S. Department of Transportation, UTC.

11. Aesthetic Places and Travel Destination Choices May. 2024 - Mar. 2026

Center for Spatial Planning Analytics and Visualization, Georgia Tech

Advisor: Dr. Subhrajit Guhathakurta, Co-author: Seung Jae Lieu

- Aims to understand how individual level of car dependency moderates the appeal of streetscapes and servicescapes and influences where they choose to dine out.
- Using POI attributes and sales from SafeGraph, Yelp review data (text, images), and Google Street View images to holistically assess the appeal of POI.
- Published in Journal of Urban Design

10. Can Thanksgiving Destinations Predict Climate Migration Patterns? Aug. 2023 - Jan. 2024

Center for Spatial Planning Analytics and Visualization, Georgia Tech

Advisor: Dr. Subhrajit Guhathakurta, Co-author: Uijeong Hwang

- Used weekly foot-traffic data from SafeGraph to extract travel patterns during Thanksgiving holidays.
- Compared the destination choices from Thanksgiving holiday travel patterns and travel patterns after major hurricane events through Spearman's rank correlation coefficient.
- Published in Findings

9. Linking Activities, Expenditures, and Energy Use into an Integrated Systems Model to Understand and Predict Energy Futures Aug. 2023 - present

Center for Spatial Planning Analytics and Visualization, Georgia Tech

Advisor: Dr. Subhrajit Guhathakurta (PI), Dr. Eric Williams (PI), Dr. Eric Hittinger (Co-PI)

Co-authors: Sinoun Phoung, Connor Liu

- Research in two fold: How does the "new normal" teleworking affect residential, commercial, and transportation energy use? How is e-commerce affecting people's time use and residential, commercial, and industrial energy use?
- Funded by National Science Foundation (NSF) #2243100.
- Published in Environmental Research: Infrastructure and Sustainability, Time & Society, Energies, Findings.

8. A Bibliometric Literature Review of Artificial Intelligence, Machine Learning, and Deep Learning in Urban Studies Oct. 2022 – Jul. 2023

Center for Spatial Planning Analytics and Visualization, Georgia Tech

Advisor: Dr. Subhrajit Guhathakurta

Co-authors: Uijeong Hwang, Dr. Bon Woo Koo

- Conducted LDA topic modeling using Python Gensim library in Jupyter Notebook and categorized planning research articles that applied or discussed AI, machine learning, or deep learning
- Discovered research trends of AI application in planning research

7. Mental Health Facility Visits Before and After the Outbreak of Covid-19: The Role of Walkable Built Environment Oct. 2022 - Jan. 2025

Team members: Dr. Bon Woo Koo, Uijeong Hwang

- Examined how the built environment has affected/moderated mental health during the COVID-19 pandemic in Atlanta, Georgia using SafeGraph data
- Published in Journal of Transport and Health

6. Urban Sensing of Pedestrians through Integrated, Cost-effective, and Scalable Audio Sensor Networks Sep. 2022 - present

Center for Spatial Planning Analytics and Visualization, Georgia Tech

Advisor: Professor Subhrajit Guhathakurta (PI), Professor Alexander Lerch (Co-PI)

Team members: Dr. Noah Posner, Dr. Bon Woo Koo, Pavan Seshadri, Yonghyun Kim

- The project aims to investigate the usefulness of microphones for estimating pedestrian traffic
- Experimented with hardware components in a pedestrian-heavy campus environment to see how far audio technology can be pushed to sense people and to assess the possibilities for scaling up
- Publications & Data: https://urbanaudiosensing.github.io/, Funded by NSF #2203408

5. A CyberGIS-enabled Pandemic Warning System Using Social Media Data Sep. 2021 – May 2022
CyberGIS Center for Advanced Digital and Spatial Studies, UIUC

Advisor: Professor Shaowen Wang, Teaching Assistant Professor Su Han(team leader)

- Compared ARIMA, LSTM, and Facebook Prophet time series prediction models to predict regional COVID-19 risk using TensorFlow Keras API
- Established a COVID-19 risk assessment indicator using Twitter mobility data

4. CyberGIS-VIZ, 2021 Sep. 2021 – May 2022
CyberGIS Center for Advanced Digital and Spatial Studies, UIUC

Advisor: Professor Shaowen Wang, Teaching Assistant Professor Su Han
Role: Group Member

- Participated in developing an open-source software tool for interactive geospatial visualization and scalable visual analytics
- Website: https://github.com/cybergis/CyberGIS-Viz
- Used Python, CyberGISX and JavaScript Libraries (Leaflet, D3, PlotlyJS, geostats, jQuery, Bootstrap)

3. Development and Validation of Regional Models of HIV Vulnerabilities and Solutions, 2021 Sep. 2021 – May 2022
CyberGIS Center for Advanced Digital and Spatial Studies, UIUC

Advisor: Dr. Shaowen Wang, Dr. Su Han (team leader)

- Project "Development and Validation of Regional Models of HIV Vulnerabilities and Solutions" with PIs: Dr. Dolores Albarracin and Dr. Sally Chan
- Supported development of a CyberGIS application called Scenario Analysis Mapper where spatiotemporal patterns of HIV rates in the US counties are visualized using multiple and coordinated views.
- Website: http://su-gis.iptime.org/HIV
- Used Python, R, CyberGISX and JavaScript Libraries (Leaflet, D3, PlotlyJS, geostats, jQuery, Bootstrap)

2. Analysis of the Subway Ridership Change in Seoul after the Outbreak of COVID-19 June – Aug. 2020
Environmental Spatial Informatics & Disaster Prevention Lab, Yonsei University
Advisor: Dr. D.K. Yoon
Co-author: You-jeong Hong

- Categorized the time series pattern of ridership demand after the outbreak of COVID-19 in each subway station in Seoul using open ridership data
- Awarded by Seoul Institute for Excellence in Research Paper ($1,000)

1. A Comparative Analysis of Trends of Disaster Risk Research using Topic Modeling & Network Analysis Jan. – Aug. 2020
Environmental Spatial Informatics & Disaster Prevention Lab, Yonsei University
Advisor: Dr. D.K. Yoon

- Conducted LDA topic modeling and Gephi network analysis to categorize disaster research in domestic journals and foreign journals
- Published in KOSHAM

CAPSTONE PROJECTS

PaRIT (Planning and Regulation Information Tool) Development Aug. 2021 – May 2022
Capstone project at UIUC

Advisor: Assistant Professor Dustin Allred, AICP & Dr. Lewis Hopkins

- Created a web map that links existing city plans and regulations into the City of Urbana map.
- Defined use cases and wrote a technical documentation so that the City of Urbana and continue to update the map.
- Used ArcGIS Online and Python (Website)

Korean Language(Hangeul) Education Mobile AR App, DictionARy Mar.– June 2020

Capstone project at Yonsei University Media System Lab

Supervisor: Professor Tack Don Han

- Developed a mobile AR app using Unity Vuforia engine that recognizes Korean language alphabet cards and guides users to combine correct cards.
- GitHub: https://github.com/bravoyourlif/DictionARy

Projection-based AR Evacuation Simulator using Kinect for Windows V2 and Unity Mar.– June 2019

Capstone project at Yonsei University Media System Lab

Supervisor: Professor Tack Don Han / Role: Project leader (among three members)

- Developed an on-desk AR simulator that recognizes a blueprint in real-time and calculates the evacuation way and time of the number of people a user indicated through placing tangible color blocks on the blueprint
- Combined Floyd-Warshall algorithm and Dijkstra algorithm to reduce operating time in wayfinding process
- GitHub: https://github.com/bravoyourlif/PARES

TEACHING

Instructor Fall 2026 (expected)

School of City and Regional Planning at Georgia Tech

- Course: CP4020 Intro to City and Regional Planning

Teaching Assistant Spring 2022

Department of Natural Resources and Environmental Sciences at UIUC

- Course: NRES100 Fundamentals of Environmental Science (Virtual)
- Managed online weekly discussions, assignments, and exams

Teaching Assistant (planning studio) Fall 2021

Department of Urban and Regional Planning at UIUC
Presiding Instructors: Dr. Dustin Allred, Dr. Lewis Hopkins

- Course: UP510-DA Plan Making
- Managed the PaRIT (Planning and Regulation Information Tool) development team
- Developed PaRIT using ArcGIS Online and Python (Website)

Teaching Assistant (based on R) Fall 2020, Spring 2021

Department of Urban and Regional Planning at UIUC
Presiding Instructors: Dr. Fang Fang, Dr. Bumsoo Lee

- Courses: UP494 Advanced Data Science for Planners, UP199 Data Science for Planners, UP460 Urban Transportation Modeling
- Graded and worked as a supplemental instructor for weekly R lab sessions (All courses)
- Instructed five R modeling sessions (UP460)

Teaching Assistant (based on Python) Winter, Spring 2020

Yonsei University Liberal Education for Freshmen

- Course: YCS1001 Computational Thinking and SW Programming
- Instructed lab sessions once a week
- Created and graded exams and final project materials.

Tutor for Operating Systems (based on C and C++) Spring 2019

Yonsei OSE (Open Smart Education) Center

- Taught and supported five undergraduate students in an Operating Systems course in Computer Science and Engineering major

AWARDS & SCHOLARSHIPS

Academic Excellence Award Spring 2026
School of City and Regional Planning, Georgia Tech

Graduate Assistantship & Financial Award (approximately $45,000) 20-21 Academic Year
University of Illinois at Urbana-Champaign

Excellent Research Paper Award ($1,000) Nov. 2020
Seoul Institute
- "Analysis of the Subway Ridership Change in Seoul after the Outbreak of COVID-19" Yoo-Jeong Hong, **Chaeyeon Han**

Excellent Volunteering Mentor of Children Nov. 2019
Gangseo I-will center, Seoul

Honors roll (GPA : 4.03/4.3) Spring 2019
Department of Computer Science and Engineering, Yonsei University

1st place award in Computer Science Exhibition (2 awards) Spring 2019, 2020
Yonsei University, awarded among 30 teams

Technology Assistant Scholarship ($4,375) Sep. 2018 – Aug. 2019
Graduate School of International Studies, Yonsei University

Excellent Tutor Scholarship ($250) Spring 2019
Yonsei OSE (Open Smart Education) center, for tutoring Operating System

OTHER ACTIVITIES

Invited Monthly Columnist of Magazine 국토 May 2024 - present
published by the Korea Research Institute for Human Settlements, KRIHS

School of City and Regional Planning SPA (Student Planning Association) Sep. 2023 - May 2024
Ph.D. Representative, Georgia Tech School of City and Regional Planning

BIGWAVE, Korean Youth Climate Change Network Aug. 2020 – Aug. 2022
Member of Researcher Network
- Participated in youth climate actions in South Korea

Codable, Korean Coding Club at University of Illinois Aug. 2021 – May 2022
Member of VR/AR Team

Korean Student Association, KSA Graduate Team Staff Feb. 2021 – May 2022
Graduate Team Staff, Group leader for social bubble activities

'Inside-out Mentor Group' at Gangseo I-will Center, Seoul, South Korea May – Nov. 2019
Volunteer Mentor for Unprivileged Children
Tutor of math, Korean literature, and basic programming

Start-up enterprise '7Pictures' Aug. 2016 – Dec. 2017
Project Manager
- Operated an art crowdfunding platform, conducted art projects, and planned visual art exhibitions

Student Council of the Department of Computer Science and Engineering Mar. – Dec. 2015
Member of Public Relations Group (4 members)