DAWON OH

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EDUCATION

Harvard University, United States   Now

Doctoral Candidate in Urban Planning and Design (Advisor: Carole Voulgaris/ Ann Forsyth)

Seoul National University, Seoul, South Korea   Jun. 2022

(only finished the coursework) PhD in City and Regional Planning

Seoul National University, Seoul, South Korea   Jun. 2019

MCP in City and Regional Planning

Chung-Ang University, Seoul, South Korea   Jun. 2017

BE in Civil and Environmental Engineering (Cum Laude)

PUBLICATIONS

Papers in Refereed Journals

1. Duro, J., Kim, J.H., Voulgaris, C., & Oh, D. (2025). Constraints or Freedom? Relationships between Destination Accessibility and Activity Spaces. *Transport Findings,* November.

2. Oh, D (2026). Who Travels Longer? Travel Time Inequality by Gender, Age, and Urban Form in Seoul. *Under review(Transportation Planning and Technology).*

3. Oh, D., & Park, I. K. (2026). Gender and age heterogeneity in urban park accessibility: Estimating demographic distance thresholds. *Manuscript submitted (Health & Place).*

4. Oh, D., & Park, I. K. (2025). Sheltering in place: unveiling how urban park characteristics shaped visiting patterns during the pandemic using machine learning. *Computational Urban Science, 5(1), 29.*

5. Oh, D., & Park, I. K. (2023). Nocturnal Vs. Diurnal: Relationship between Land Use and Visit Time Patterns in Commercial Areas. Applied Spatial Analysis and Policy, 16(1), 329-352.

6. Oh, D., & Park, I. K. (2023). Changes in service distances of urban parks before and after the COVID-19 Pandemic: Applying a modified gravity model for Seoul Metropolitan Area. *arXiv preprint arXiv:2303.15321.*

7. Park, I. K., Chung, I. R., Oh, D., & Jung, Y. (2021). Changes in the Number of Urban Park Users Due to the Spread of COVID-19: Time Series Big Data Analysis. *Journal of the Korean Regional Science Association*, 37(2), 17-33.

Technical Report

1. Republic of Korea: Presidential Committee for Balanced National Development. (2020). A Study on the Introduction Plan of Community Impact Assessment for Inclusive and Balanced Development (Report No. 12-1073500-000027-01).

2. National Research Council for Economics, Humanities, and Social Sciences, South Korea. (2020). 2020 Annual Report on Research Ethics Violation of Government-Funded Research Institutes Issued Papers: Architecture and Urban Research Institute

3. National Research Council for Economics, Humanities, and Social Sciences, South Korea. (2019). 2019 Annual Report on Research Ethics Violation of Government-Funded Research Institutes Issued Papers: Korea Research Institute for Human Settlements

4. Doctors' Action for Health (2018). In-depth interview on health and housing conditions of slum residents. Retrieved from http://dah.or.kr/archives/view/195/

5. Seoul Metropolitan Government Advisory Group for the Urban Planning Commission (2018). A Study on the Improvement of Monitoring Program for Urban Renewal Projects (Report No. EM7230283).

RESEARCH EXPERIENCE

1. Travel behavior of children and caregivers using the Danish National Household Travel Survey

   Division of Transportation Science at Technical University of Denmark (DTU), Denmark

   Research Assistant (Prof. Anders Fjendbo Jensen)   Feb. 2025 – Jul. 2025

   - The project analyzed how children and their caregivers travel in Denmark, using the Danish National Household Travel Survey to identify patterns, needs, and constraints.

2. Destination Accessibility and Activity Spaces of Granada, Spain

   Graduate School of Design, Harvard University, Unted States

   Research Assistant (Prof. Carole Voulgaris)   Mar. 2025 – Oct. 2025

   - The project conducts a spatial analysis of how residents access daily destinations in Granada, Spain, examining variations in accessibility and the size and structure of individuals' activity spaces.

3. Comparative study on rental deserts: The cases of the U.S. and France

   Graduate School of Design, Harvard University, Unted States

   Research Assistant (Prof. Magda Maaoui)   Sep. 2024 – Feb. 2025

   - The project conducts a comparative analysis of rental deserts in the U.S. and France to examine the factors contributing to housing inequality.

4. Children's independent mobility and active travel

   Graduate School of Design, Harvard University, Unted States

   Research Assistant (Prof. Carole Voulgaris)   May. 2023 – May. 2024

   - In collaboration with Prof. Gregory Macfarlane at Brigham Young University and Prof. Anders Fjendbo Jensen at the Technical University of Denmark (DTU)

- The purpose of this project is to study relationships between children's independent mobility and the use of active modes of transportation.

5. Identifying walking trips using phone location-based data

   Graduate School of Design, Harvard University, Unted States

   Research Assistant (Prof. Carole Voulgaris)   Oct. 2022 – Apr. 2023

   - To develop an equation to quantify the difference between trips made by walking and trips made by other modes of transportation, location-based big data (LBD) was cleaned and trained with a machine learning model using travel survey data

6. Quantifying the Impact of Income and Mobility Inequality on of COVID-19 Risk

   Inclusive Planning and Policy Lab, Seoul National University, South Korea

   Project Coordinator& Research Associate   Aug. 2020 – Mar. 2022

   - Examining the association between individual and local level factors related to income disparity and COVID-19 health issues among minority groups
   - Taking a lead role in the statistical analysis and data visualization of mobility trajectory and population dynamics change in 2020

7. The Impact of COVID-19 Pandemic and Air pollution on Park Use

   Inclusive Planning and Policy Lab, Seoul National University, South Korea

   Project Coordinator&Lead Researcher   Jun. 2020 – Feb. 2022

   - Analyzing how the COVID-19 pandemic and escalating air pollution problems influenced the changes in the use of urban parks and spatial temporal patterns of visitors
   - Designed a framework, analytical methods, and procedures for the research proposal
   - Taking a lead role in the processing of the LBD (location based big-data: retrieved from mobile phone signal), geospatial analysis, and modeling
   - Granted approx. $145,000 from the Ministry of Science and ICT, South Korea

8. Introducing Community Impact Assessment (CIA) in Korea

   Institute for Sustainable Development, Seoul National University, South Korea

   Research Associate   Oct. 2019 – May 2020

   - Integrated CIA as a tool for the countering redevelopment policies and the discriminating influences of projects (forced eviction, migration, etc.)
   - Designed questionnaires and an impact assessment tool kit to measure the impact of urban redevelopment projects on the evicted tenants
   - Granted approx. $42,000 from the Presidential Committee for Balanced National Development

9. Detecting Research Ethics Violation of Government-Funded Research Institutes

   National Research Council for Economics, Humanities, and Social Sciences, South Korea

   Research Assistant   Jun. 2019 – Sep. 2020

   - Examined erroneous data descriptions and analysis methods in papers and reports issued by government-funded research institutes in planning and architecture fields

10. A Study on the Improvement of Monitoring Program for Urban Renewal Projects

   Urban Planning Advisory Group for the Seoul Metropolitan Government, Seoul, South Korea

   Assistant analyst and database builder   Jun. 2019 – Sep. 2019

   - Built a database containing information on mega-scale construction projects since 2000; Monitored the progress and completion of urban renewal projects in licensed by Seoul City
   - Participated in writing a report based on the database above: differences between the stages of projects, regional differences, and maintenance work that includes too many regulatory changes between project authorization and completion dates

11. In-depth Study on Health and Housing Conditions of Slum Residents

   Doctors' Action for Health (NPO), South Korea

   Research Assistant   Aug. 2018 – Feb. 2019

   - Investigated the health and housing conditions of slum residents, focusing on the urban slum located at the center of Seoul. The research was funded by a nonprofit organization
   - Implemented in-depth interviews on health and housing condition of slum residents: Participated as an interviewer, conducting extensive interviews with slum residents, and archived their lifelong stories as a formal document (Babonanum, https://www.babo.or.kr)

TEACHING EXPERIANCES

1. (STU 1232) Collaborative Design Engineering Studio II   2026 Spring
   - Teaching Fellow, School of Engineering and Applied Sciences, Harvard University

2. (HIS 4374) Cities, Infrastructures, and Politics   2024 Spring
   - Teaching Fellow, Graduate School of Design, Harvard University

3. (VIS 2128) Spatial Analysis   2023 Fall
   - Teaching Fellow, Graduate School of Design, Harvard University

4. (SES 5215) Analytic Methods of Urban Planning: Quantitative   2023 Fall
   - Teaching Fellow, Graduate School of Design, Harvard University

5. DIY Mapping practices in participatory GIS   Nov. 2020
   - Lecturer, 2020 Seoul Youth Civic Lecture Series

6. Python Data Workshop: How to manage location-based big data   Feb 2020
   - Tutor, Seoul National University, South Korea

7. GIS and geospatial analysis   2021 Spring
   - Teaching Assistant, Seoul National University, South Korea

8. Statistics and Quantitative Analysis   2020 Fall
   - Teaching Assistant, Seoul National University, South Korea

CONFERENCE PRESENTATIONS

1. Oh, D. (January 2026). Modeling the inclusion of children in caregivers' daily travels: Evidence from the Danish National Travel Survey. *105th Annual Meeting of the Transportation Research Board*, Washington, D.C., United States.

2. Oh, D. (October 2024) Trends in Active Commuting in the US Over the Last 20 Years. *2024 Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Seattle, United States.

3. Oh, D. (February 2024) Uneven Spatial Distribution of the Impact of COVID-19: Focusing on the Changes in Women's Employment. *27th Annual Harvard East Asia Society Graduate Conference*, Cambridge, United States.

4. Oh, D., & Voulgaris, C. (Accepted). Identifying walking trips using phone location-based data: Focusing on Women's nighttime commuting. *2023 Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Chicago, United States.

5. Oh, D., & Voulgaris, C. (October 2022). Calibrating Daily Travel Patterns of Millenials: The Difference in Commuting and Non-commuting Trip. *2022 Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Toronto, Canada.

6. Oh, D., & Park, I. K. (June 2022). Uneven spatial distribution of the Impact of Economic Recession: Focusing on the changes in women's employment during the Pandemic. *The 12th Asian Conference in Regional Science (ACRS)*, Ulsan, South Korea.

7. Oh, D., & Park, I. K. (October 2021). Classifying Urban Parks by the Daily Visiting Pattern during COVID-19 Using Machine Learning. *2021 Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Online.

8. Oh, D., & Park, I. K. (August 2018). Changes in Service Distances of Urban Parks Before and After the COVID-19 Pandemic: Applying a Modified Gravity Model for the Seoul Metropolitan Area. *2021 International Conference of Asia-Pacific Planning Societies (ICAPPS)*, Online. **Best Paper Prize**

9. Oh, D., & Park, I. K. (November 2020). What determines mixed land use?: Analysis of big data on commercial districts in Seoul, South Korea. *2020 Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Online.

10. Oh, D., & Park, I. K. (Accepted). Specialization or diversity? Mixed land use in commercial districts.. *2020 Western Regional Science Association (WRSA) Annual Conference*, Hawaii, USA. Canceled due to COVID-19.

11. Oh, D., & Park, I. K. (July 2019). Nocturnal vs. diurnal: A comparison of land use by commercial district type. *2019 Asia Real Estate Society (AsRES) Annual Conference*, Shenzhen, China.

12. Oh, D., & Park, I. K. (May 2019). Impact of mixed-use on the distribution of floating population by types of place: Focusing on commercial districts in Seoul. *2019 Spring Congress of Korea Planning Association (KPA)*, Seongnam, South Korea. **Best Paper Prize**

13. Oh, D., Lee, W., Lim, H., & Choi, M. (August 2018). A study on the expansion of public rental housing supply using the REITs model. *2018 International Conference of Asia-Pacific Planning Societies (ICAPPS)*, Ho Chi Minh City, Vietnam.

14. Oh, D., Lee, W., & Lim, H. (May 2018). A study on the housing supply model of Seoul REITs: focusing on the financial structure of Seoul Social Housing Funds. *2018 Spring Congress of Korea Planning Association (KPA)*, Seoul, South Korea.

FELLOWSHIPS, GRANTS AND AWARD

1. Harvard Graduate School of Design's Doctor of Design Research Grant   Sep. 2025 – Dec. 2026
   - Dissertation Writing Grants awarded to selected students to support research activities .

2. Harvard Mellon Urban Initiative Research Grant   May. 2025 – Apr. 2026
   - Research supported by Harvard University and the Andrew W. Mellon Foundation.

3. Harvard Mellon Urban Initiative Doctoral Fellowship   Oct. 2024 – Mar. 2025
   - Research Fellows selected by Harvard University and the Andrew W. Mellon Foundation to expand understanding about urban life, design and built environments.

4. Harvard Graduate School of Design's Real Estate Research Grant   Mar. 2023 – Apr. 2024
   - Analyze transit service disparities at the neighborhood level by hourly time spans, identify neighborhoods likely to be transit deserts during specific time periods.

5. Brain Korea 21 Program for Leading Universities & Students   Mar. 2021 – Feb. 2022
   - BK21 program supports the next generation of researchers in science and engineering fields
   - Granted approx. $15,000 from the South Korean Government.

6. Best Paper Prize, International Conference of Asia-Pacific Planning Societies   Aug. 2021
   - 'Changes in Service Distances of Urban Parks Before and After the COVID-19 Pandemic: Applying a Modified Gravity Model for the Seoul Metropolitan Area.'

7. 2020 1st Asia Young Activist Researcher Fellowship (AYARF)   Jan. 2020
   - Selected as a Fellow in the field of "Digital Technology and Voice' (https://www.ayarf.net/1st-fellows/oh-dawon)
   - Granted approx. $4,500 from the Seoul Metropolitan Government

8. Best Paper Prize, Spring Congress of Korea Planning Association   May. 2019
   - 'Impact of Mixed-use on the Distribution of the Floating Population of Types of Place: Focusing on Commercial Districts in Seoul.'

9. Best undergraduate essay Prize, Chung-Ang University   Jun. 2017
   - Bachelor's thesis: 'Quantifying the Economic Impact of Shared Parking Space'

10. Entry prize, Public Space Design Competition for Seoul Metropolitan Government   Oct. 2016
    - 'Re-designing a Community Park Near Seoul Thermal Power Plant'

11. Bronze prize, Community Design Competition for Seoul Metropolitan Government   Nov. 2013
    - 'Design Plans for Revitalizing Urban Slum Near the Train Station: Nok-Cheon Village'

12. Semester High Honors Scholarship for Academic Excellence   Mar. 2013 – Feb. 2014
    - Granted from the School of Civil and Environmental Engineering, Chung-Ang University

WORK EXPERIENCE

1. ID Planning Co., Seoul, South Korea

   Part-time Analyst & Editor   Mar. 2018 – Jun. 2018
   - Drafted a proposal for a car park near Goyang Starfield Mall to ease traffic congestion, including a feasibility review and a parking-tower development proposal.

2. Seongbuk-gu government office, Seoul, South Korea

   Program Manager, resident participation program   Oct. 2017 – Feb. 2018
   - Communicated on behalf of low-income residents with the head of district office on the inconvenience of informal housing and limited transit accessibility

3. Korea Trade-Investment Promotion Agency (KOTRA)

   Internship, Training Course for Multilateral Development Bank (MDB) Consulting   Feb. 2017
   - Assisted the consultants in financial feasibility analysis of multilateral aid for developing countries, section of infrastructure and sustainable transport strategy

SKILLS AND ELIGIBILITY

1. Transportation Engineer, Licensed by Korean Professional Engineers Association (KPEA)
   - ●●●●●   TransCAD, SimPy, Madina, Biogeme

2. Programming Languages for Data Science and Statistical Computing
   - ●●●●●   Python, R, SQL, Stata, SPSS , SQL
   - ●●●●○   HTML, Matlab, Java

3. Geospatial analysis and Map Presentation
   - ●●●●●   ArcGIS, QGIS, Geoda, Rhinoceros, Geoda

4. Computer graphics/rendering
   - ●●○○○   CAD, Photoshop, Illustrator, SketchUp

MEMBERSHIPS AND AFFILIATIONS

Association of Collegiate Schools of Planning

Transportation Research Board

Women's Transportation Seminar International

The International Association for Travel Behaviour Research

Asia-Pacific Planning Societies

Korea planning Association

ACADEMIC AND VOLUNTARY ACTIVITIES

1. Public Forum for Youthful Future 2020   2021

    Planner and host

    -   Planned and hosted a forum with lectures on the contrasting aspects of urban nighttime—how it can be more dangerous for socially disadvantaged groups (e.g., homeless women, migrant women, and people with disabilities) while also serving as a space of liberation for LGBTQIA communities. (Retrieved from https://youthhub.kr/hub/40646)

    -   Moderated public discussions on how urban green parks can help address the climate crisis as carbon-absorbing spaces, and introduced the concept of city parks as common areas that support ecosystem conservation. (Retrieved from https://youthhub.kr/hub/40946)

2. Seoul Fear Map, A Collective Emotion Map   2020

    -   https://www.pocitovemapy.cz/seoul-2020-en/ (survey)

    -   https://www.pocitovemapy.cz//seoul-2020-en/nahled (visualization)

    -   Funded by Asia Young Activist Researcher Fellowship (AYARF), the research focuses on detecting women's emotional responses in urban areas by implementing a participatory GIS tool. Initiated this academic project in collaboration with Jirka Panek, an expert in participatory GIS and a professor at the Palacky University in the Czech Republic

3. Youth Board of Goyang Urban Management Committee   2017 – 2018

    -   Participated in 4 public conferences in the National Assembly and KINTEX Ilsan in Goyang on development projects of Goyang City

    -   Suggested plans for developing Daegok Station and how it would affect the land use, traffic flow, and the industrial development of the neighboring area

4. Activist, community-building project for Sangdo   district   2016

    -   Helped make a community space for the low-income community: ran a space as a heatwave shelter, after school childcare service, and soup kitchens

5. Ihwa Mural Village Project   2013

    -   Sponsored by Ministry of Culture, Sports and Tourism & Public Art Promotion Committee of Korea (http://english.seoul.go.kr/ihwa-mural-village/)

LANGUAGES

Korean Native

-   English   ●●●●●
-   Español   ●○○○○
-   Japanese   ●●●○○
-   Chinese   ●○○○○