

## Dong-ah Choi

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### EDUCATION

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- 2021 (Expected) Ph.D. in Metropolitan Planning, Policy, and Design, **University of Utah**  
Dissertation title: “Street Greenery for Active Living Communities: Evidence from Western U.S. Urban Areas”
- 2013 Master of Landscape Architecture, **Seoul National University**
- 2010 Bachelor of Landscape Architecture, **Seoul National University**

### PUBLICATIONS

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#### Peer-Reviewed Journal Articles

9. Park, K., Rigolon, A., **Choi, D.**, Lyons, T., & Brewer, S. (2021). Transit to parks: An environmental justice study of transit access to large parks in the US West. *Urban Forestry & Urban Greening*, 127055. <https://doi.org/10.1016/j.ufug.2021.127055>
8. Lyons, T. & **Choi, D.** (2021). Transit Economic Equity Index: Developing a Comprehensive Measure of Transit Service Equity. *Transportation Research Record: Journal of the Transportation Research Board*. <https://doi.org/10.1177/0361198120970529>
7. **Choi, D.**, Park, K., & Rigolon, A. (2020). From XS to XL Urban Nature: Examining Access to Different Types of Green Space Using a ‘Just Sustainabilities’ Framework. *Sustainability*, 12(17), 6998. <https://doi.org/10.3390/su12176998>
6. Lyons, T., **Choi, D.**, Park, K., & Ameli, S. H. (2020). Safety and Nonoptimal Usage of a Protected Intersection for Bicycling and Walking: A Before-and-After Case Study in Salt Lake City, Utah. *Sustainability*, 12(21), 9195. <https://doi.org/10.3390/su12219195>
5. Park, K., Ewing, R., Sabouri, S., **Choi, D.**, Hamidi, S., & Tian, G. (2020). Guidelines for a Polycentric Region to Reduce Vehicle Use and Increase Walking and Transit Use. *Journal of the American Planning Association*, 86(2), 236-249. <https://doi.org/10.1080/01944363.2019.1692690>
4. Park, K., Lee, S., & **Choi, D.** (2020). Empty Parks: An Observational and Correlational Study Using Unmanned Aerial Vehicles (UAVs). *Journal of Digital Landscape Architecture* 5-2020, 262-274. <http://doi.org/10.14627/537690028>
3. Park, K., **Choi, D.**, Tian, G., & Ewing, R. (2019). Not Parking Lots but Parks: A Joint Association of Parks and Transit Stations with Travel Behavior. *International journal of environmental research and public health*, 16(4), 547. <https://doi.org/10.3390/ijerph16040547>
2. Pincetl, S., Gillespie, T. W., Pataki, D. E., Porse, E., Jia, S., Kidera, E., ... & **Choi, D.** (2019). Evaluating the effects of turf-replacement programs in Los Angeles. *Landscape and Urban Planning*, 185, 210-221. <https://doi.org/10.1016/j.landurbplan.2019.01.011>
1. **Choi, D.** & Jeong, W. (2014) A Study of Urban Greenbelt Prototypes and Spatial Characteristics of First-generation Metropolitan New Towns—Focused on Il-san, Pyeong-chon, and San-bon

Metropolitan New Towns. *Journal of the Urban Design Institute of Korea*, 15(5), 107-123. (in Korean)

### Book Chapter

1. **Choi, D.**, Tagore, P., Siddiq, F., Park, K., & Ewing, R. (2020). Descriptive Statistics and Visualizing Data. In Ewing, R. & Park, K. (eds.) *Basic Quantitative Research Methods for Urban Planners*, Routledge. <https://www.routledge.com/Basic-Quantitative-Research-Methods-for-Urban-Planners/Ewing-Park/p/book/9780367343255>

### Manuscripts Under Review or In Preparation

3. **Choi, D.**, & Ewing, R. (2021). Effect of Street Network Design on Traffic Congestion and Traffic Safety.
2. Hinners, S., Rose, J., **Choi, D.**, Park, K., Guffin, E., & Mauldin, K. (2021). Geographically Evaluating Urban-Wildland Juxtapositions across 36 United States Urban Areas.
1. Ewing, R., Lyons, T., Siddiq, F., **Choi, D.**, Hamidi, S., Sabouri, S. & Kiani, F. (2021). Growth Management Effectiveness: A Literature Review.

### RESEARCH GRANTS

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- 2020 **Principal Investigator**, “Street greenery for active living communities: the relationship of physical and outdoor activity to street greenery,” Graduate Student Research Funding, Global Change and Sustainability Center (GCSC), University of Utah (\$1,500)
- 2020 **Research Assistant/Project Manager**, “Impact of Streetcar Operation on Traffic and Land Use Changes” (PI: Reid Ewing), Utah Department of Transportation (UDOT) UTRAC (\$30,000)
- 2019 **Research Assistant/Project Manager**, “Street Network Connectivity, Traffic Congestion, and Traffic Safety” (PI: Reid Ewing), Utah Department of Transportation (UDOT) UTRAC (\$30,000)

### TEACHING EXPERIENCE

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- 2021 Spring Teaching Assistant, **Economy of Cities** (3 credits; undergraduate), University of Utah
- 2020 Fall Instructor (co-teaching), **Community and Regional Analysis** (3 credits; graduate), University of Utah
- 2019 Spring Instructor, **GIS in Planning & GIS for Urban Ecologists** (3 credits; undergraduate & graduate), University of Utah
- 2018 Fall Teaching Assistant, **GIS in Planning & GIS for Urban Ecologists** (3 credits; undergraduate & graduate), University of Utah
- 2018 Spring Teaching Assistant, **Design Ecologies** (3 credits; undergraduate), University of Utah
- 2018 Spring Teaching Assistant, **Design Contexts** (3 credits; undergraduate), University of Utah

### AWARDS & HONORS

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- 2020 **Graduate Research Fellow** (\$18,900 + tuition), Graduate School, University of Utah
- 2018 **The 1st Prize** (\$10,000 awarded by the Mayor of Seoul), 2018 72-Hours Urban Renewal Projects, Seoul Metropolitan Government, Korea

- 2012 **Selected**, IPD International Diplomacy Design Award (Visual Communication Design—Poster Design), International Design Exchange Foundation 2012
- 2012 **Lecture & Research Scholarship** (\$4,300), Seoul National University
- 2011 **The 2nd Prize**, 9th Rural Amenity Design Competition, Rural Development Administration of Korea
- 2009 **Honorable Mention**, Incheon International Urban Design Competition for Students, Incheon Urban Development Corporation
- 2006 **National Scholarship for Science and Engineering** (\$17,500), National Research Foundation of Korea

## ACADEMIC PRESENTATIONS

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- 2021 **Choi, D.**, Rigolon, A., & Park, K. Which Neighborhood Has Street Greenery? Evidence from Western U.S. Urban Areas, *Council of Educators in Landscape Architecture (CELA) 2021 Annual Conference (virtual)* (Accepted).
- Choi, D.**, & Ewing, R. Effect of Street Network Connectivity on Traffic Congestion and Traffic Safety, *Transportation Research Board (TRB) 100th Annual Meeting (virtual)*.
- 2020 **Choi, D.**, Rigolon, A., & Park, K. Who Has Access to Street Greenery? Evidence from the Salt Lake Urban Area, *Association of Collegiate Schools of Planning (ACSP) 2020 Conference (virtual)*.
- Park, K., **Choi, D.**, Rigolon, A., & Lyons, T. Transit to large parks: Exploring spatial distribution of transit accessibility to large parks, *ACSP 2020 Conference (virtual)*.
- Ewing, R., **Choi, D.**, Kiani, F., Sabouri, S., Kim, J. Effect of Street Network Connectivity on Traffic Congestion and Traffic Safety, *ACSP 2020 Conference (virtual)*.
- Lyons, T., **Choi, D.**, Ameli, H. & Park, K. Safety and Non-Optimal Usage of a Protected Bicycle Intersection: A Before-and-After Case Study in Salt Lake City, Utah. *TRB 2020 Annual Meeting (Washington, D.C.)*
- Sabouri, S., **Choi, D.**, Park, K., Ameli, H. Definitions, Types, and Criteria of Centers in Planning Practice: A Review of 126 Regional Transportation Plans in the United States. *TRB 2020 Annual Meeting (Washington, D.C.)*
- Lyons, T. & **Choi, D.** Transit Economic Equity Index: Developing a Comprehensive Measure of Transit Service Equity. *TRB 2020 Annual Meeting (Washington, D.C.)*
- Park, K., Lee, S. & **Choi, D.** Empty parks: An observational and correlational study using unmanned aerial vehicles (UAVs). *2020 Annual International Digital Landscape Architecture Conference (virtual)*
- Park, K., Lee, S., & **Choi, D.** What makes neighborhood parks under-used?: An observational study using UAVs, *CELA 2020 Annual Conference (Louisville, KY)* (canceled due to COVID-19)
- Park, K., Ewing, R., Sabouri, S., **Choi, D.**, Hamidi, S. & Tian, G. Built Environment Criteria for Polycentric Developments: To Reduce Vehicle Use and Increase Walking and Transit Use. *TRB 2020 Annual Meeting (Washington, D.C.)*

- 2019 Lyons, T., **Choi, D.**, Ameli, H. & Park, K. Safety and Non-optimal Usage of a Protected Bicycle Intersection: A before-and-after case study in Salt Lake City, UT. *ACSP 2019 Conference (Greenville, NC)*.
- Park, K., Ewing, R., Sabouri, S., **Choi, D.**, Hamidi, S., & Tian, G. Assessment of Polycentric Developments Nationally for Transportation Impacts. *ACSP 2019 Conference (Greenville, NC)*.
- 2018 **Choi, D.**, Ewing, R. & Park, K. “How Can Sidewalk Data Enhance Walk Mode Choice Model?—Walk Mode Choice Model Calibrations for the Salt Lake Region,” *ACSP 2018 Conference (Buffalo, NY)*.
- Choi, D.**, Hinnens, S.J., Rose, J. & Park, K. “Urban-Wildland Juxtaposition Index: A Framework for Understanding the Human-Nature Landscape,” *American Planning Association (APA) 2018 National Planning Conference (New Orleans)*.
- Choi, D.**, Hinnens, S.J., Rose, J. & Park, K. “Mapping and Measuring the Urban-Wildland Juxtaposition,” *Global Change & Sustainability Center (GCSC) 2018 Research Symposium, University of Utah*.

#### INVITED TALKS & GUEST LECTURES

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- 2021 “Understanding and Career Building in Landscape and Urban Research,” Department of Landscape Architecture, Hankyong National University (virtual) (Scheduled March 2021).
- 2020 “Street Greenery for Active Living Communities: Evidence from Western U.S. Urban Areas,” CMP 7401: Research Design (Instructor: Prof. Alessandro Rigolon), Department of City & Metropolitan Planning, University of Utah (9/25/2020).
- 2019 “GIS Workshop for CMP Students,” Department of City & Metropolitan Planning, University of Utah (8/15/2019).
- 2018 “Working with U.S. Census Data,” CMP 6450: GIS in Planning (Instructor: Martin Buchert), Department of City & Metropolitan Planning, University of Utah (10/2/2018).

#### PROFESSIONAL EXPERIENCE

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| 2018–Present | <b>Graduate Research Assistant</b> , Metropolitan Research Center, Department of City & Metropolitan Planning, University of Utah                            |
| 2016–2017    | <b>Graduate Research Assistant</b> , Urban Ecology Research Lab, Department of Biology, University of Utah   |
| 2013–2014    | <b>Research Assistant &amp; Research Intern</b> , Architecture & Urban Research Institute  |
| 2010–2013    | <b>Landscape Designer &amp; Graduate Research Assistant</b> , Landscape Urbanism Laboratory, Department of Landscape Architecture, Seoul National University |

#### RESEARCH PROJECTS (selected)

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| 2021 | <b>Project Manager &amp; Research Assistant</b> , “Impact of Streetcar Operation on Traffic and Land Use Changes” (P.I.: Prof. Reid Ewing), Utah Transit Authority (\$30,000) |
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- 2020–2021      **Research Assistant**, “Scooting to a New Era in Active Transportation: Examining the Use and Safety of E-Scooters” (P.I.: Prof. Kristina Currans, Co-Investigator: Prof. Reid Ewing), National Institute for Transportation and Communities (\$53,702)
- 2019–2020      **Project Manager & Research Assistant**, “Street Network Connectivity, Traffic Congestion, and Traffic Safety” (P.I.: Prof. Reid Ewing), Utah Department of Transportation (\$30,000)
- 2018–2020      **Research Assistant**, Reducing Vehicle Miles Traveled (VMT), Encouraging Walk Trips, and Facilitating Efficient Trip Chains through Polycentric Development (P.I.: Prof. Reid Ewing), National Institute for Transportation and Communities, Utah Transit Authority, Salt Lake County Planning & Transportation (\$98,333)
- 2018–2019      **Project Manager & Research Assistant**, “Safety and Perception of a Protected Bicycle Intersection, Salt Lake City, UT” (P.I.: Dr. Torrey Lyons), Salt Lake City and Utah Department of Transportation (\$9,995)
- 2017              **Research Assistant**, “Mapping and Measuring the Urban-Wildland Interface: Laying the Groundwork for Quantitative Studies of Human-Nature Relationships in Urban Areas” (P.I.: Prof. Sarah Hinners), University of Utah Scholarship Incentive Seed Grant (\$10,000)

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#### **PROFESSIONAL PROJECTS (DESIGN/PLANNING, selected)**

- 2018              **Designer**, Pocket Park Design, Construction, and Behavior Changes (collaborated with landscape design firms, Design Studio Dohgam and Anmadang The Lab), 72 Hours Urban Renewal Projects of Seoul Metropolitan Government (\$50,000), South Korea
- 2013              **Designer & Research Assistant**, Landscape Design of Administrative Building External Space (P.I.: Prof. Wookju Jeong), Seoul National University, South Korea
- 2011              **Designer & Research Assistant**, Design Competition for Renovating Gwanju Civic Center & Civic Park (P.I.: Prof. Wookju Jeong), Gwanju City, South Korea
- 2010              **Designer & Research Assistant**, Garden Design for Mentally Handicapped Welfare Center, Seoul ((P.I.: Prof. Wookju Jeong), Seoul Green Trust, South Korea

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#### **SOFTWARE/DEVICE PROFICIENCY**

ArcGIS, R, SPSS, Python, Adobe Software (Photoshop, Illustrator, InDesign), MS Office (Word, Excel, Power Point), AutoCAD, Google Sketch-up

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#### **RESEARCH & TEACHING INTERESTS**

Active Living, Healthy Community Design, Environmental Justice, Urban Sustainability, GIS and Geospatial Analyses, Visual Communication

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#### **PROFESSIONAL & COMMUNITY SERVICE**

2019 Member, Student Advisory Committee, Department of City & Metropolitan Planning, University of Utah

**PROFESSIONAL AFFILIATIONS**

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Member, Council of Educators in Landscape Architecture (CELA)

Member, American Planning Association (APA)

Member, Association of Collegiate Schools of Planning (ACSP)

Member, Urban Design Institute of Korea