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## 1. Education

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Doctor of Philosophy in Urban and Regional Planning, State University of New York at Buffalo, 2021.

- Dual Degree: Advanced Graduate Certificate in Applied Biostatistics
- Dissertation: Enhancing Mobility of Older Adults and People with Disabilities
- Doctoral Program in Urban Planning Student Excellence Award

Master of Landscape Architecture, Seoul National University, South Korea, 2012.

- Thesis: Study on strategic Planning of Mega Sport Event Venues for Local Community Benefits Focused on Gangneung Venues of 2018 Pyeongchang Winter Olympics

Bachelor of Architecture, Yonsei University, South Korea, 2010.

## 2. Academic Appointments

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Postdoctoral Associate, Center for Inclusive Design and Environmental Access, State University of New York at Buffalo, 2021–Aug. 2022.; Dec. 2022–Present.

- Currently assessing housing adaptive behaviors during extreme weather events (EWEs) among individuals with mobility impairment and conducting research to understand the physical access challenges they face before, during, and after EWEs (FIP 2024-2027), funded by the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR).
- Assessing diversity, equity, inclusion, and accessibility best practices in the workplace and developing guidance on inclusive workplace practices and systems as part of an effort to build employer capacity to hire and promote people with disabilities and create accessible and inclusive workplaces (Inclusive Design for Employment Access Social Innovation Laboratory 2021-2027), funded by Canada's New Frontiers in Research Fund Transformation Stream
- Assessed the implementation of innovative, on-demand transit service models for people with disabilities that complement traditional ADA paratransit services (RERC-APT 2018-2023), funded by the NIDILRR. Involved in data collection, data analysis, and journal article write-up
- Developed a survey to evaluate the long-term impact of Universal Design (UD) for improving building users' satisfaction and well-being (RERC-UD 2020-2025), funded by the NIDILRR

Graduate Assistant, Center for Inclusive Design and Environmental Access, State University of New York at Buffalo, 2016–2021.

- Conducted a comprehensive study on barriers and opportunities of traditional and emerging transportation options for older adults and people with disabilities, funded by Toyota Social Innovation – Inclusive Mobility. Involved in conducting focus groups with these populations; conducting interviews with key stakeholders from transit agencies and transit network companies; and administering surveys to understand the impact of the COVID-19 pandemic on travel behavior and delivery service usage among older adults and people with disabilities
- Evaluated usability of wheelchair securement systems from various user perspectives to enhance access to a fixed-route large bus for wheelchair passengers (RERC-APT 2013-2018, FIP 2017-2020), funded by NIDILRR. Involved in grant writing, data collection, data analysis, and journal article write-up
- Investigated UD implementation in a workplace setting and street environment (RERC-UD 2015-2020), funded by NIDILRR. Involved in data collection, data analysis, and journal article and professional report write-up
- Conducted various usability testing (e.g., ATM kiosk, multi-sensory interactive touch maps and models) that involved people with disabilities
- Engaged in activities promoting age-friendly initiatives, assessed the age-friendliness of Erie County, and developed a website to share information and promote creating an inclusive community

Graduate Assistant, Department of Rehabilitation Science, State University of New York at Buffalo, 2015–2016.

- Investigated the challenges in the home environment and its impact on daily physical activity among community-dwelling older adults. Involved in data collection, data analysis, and paper write-up

Graduate Assistant, Environmental Planning Institute, South Korea, 2010-2011.

- Participated in the “Policy Research on Low Carbon Urban Park Building, Managing, and Operating Strategies” project. Conducted case studies on the management and operation of overseas urban parks. Assisted in organizing the urban park international symposium. Managed Place Making Workshop joined by Project for Public Space(PPS), Inc.

### 3. Professional Appointments

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Research Assistant, Architecture and Urban Research Institute, South Korea, 2015.

- Conducted case studies on the management system of community development programs (e.g., CDBG program) in the U.S. Suggested building an integrated management system for Korea’s urban regeneration programs

Assistant Manager, Culture and Community Corporation, South Korea, 2012-2014.

- Developed mid/long-term revitalization plan for a shrinking district in Incheon, South Korea. Facilitated 30+ community and stakeholder meetings and mediated negotiations between the local governing body and residents on regional development issues.
- Initiated Woodcraft Village streetscape improvement project in Incheon. Collaborated with local artisans and community members to improve the streetscape, and the initiative received the 2013 Korean Public Design Award. Planned and coordinated community festivals at the traditional marketplace for revitalization.

### 4. Publications

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#### 4.1 Publications: Refereed Journal Articles

1. Choi, J., & Park, J. (2024). Developing Problematic Performance Value Scores: Binding Routine Activity Performance, Environmental Barriers, and Health Conditions. *International Journal of Environmental Research and Public Health*, 21(6), 764.
2. Choi, J., and Maisel, J.L. (2023). Video Observations and LATV Operator Evaluations of Two Wheelchair Securement Systems. *Transportation Research Record*, 2677(12), 423-435. <https://doi.org/10.1177/03611981231168128>
3. Choi, J., and Maisel, J.L. (2022). Assessing the Implementation of On-demand Transportation Services for People with Disabilities. *Transportation Research Record*, 2676(5): 437–449. <https://doi.org/10.1177/03611981211067976>
4. Maisel, J.L., Baek, S., and Choi, J. (2021). Evaluating Users’ Perceptions of a Main Street Corridor: Before and After a Complete Street Project. *Journal of Transport & Health*, 23, 101276. <https://doi.org/10.1016/j.jth.2021.101276>
5. Choi, J., Maisel, J. L., Perez, B., Nguyen, D., and Paquet, V. (2021). User Experiences with Two New Wheelchair Securement Systems in Large Accessible Transit Vehicles. *Transportation Research Record*, 2675(2): 150-161. <https://doi.org/10.1177/0361198120954436>
6. Maisel, J.L., Ranahan, M., and Choi, J. (2021). Factors Influencing Fixed-Route Transit Decision-Making: Exploring Differences by Disability and Community Type. *Journal of Public Transportation*, 23(1): 1-14. <https://doi.org/10.5038/2375-0901.23.1.1>
7. Perez, B., Choi, J., Paquet, V., Lenker, J., Kocher, L., Nemade, M., Kern, C., and Steinfeld, E. (2021). Comparison of Wheelchair Securement Systems Designed for Use in Large Accessible Transit Vehicles (LATVs). *Assistive Technology*, 33(2): 105-115. <https://doi.org/10.1080/10400435.2019.1604582>

#### 4.2 Publications: Technical Reports

1. Miller, S., Chen, H., Maisel, J., Paquet, V., Brinkley, J., Redden, C., Kehoe, N., King, K., Jackson, S., Raymond, P., Traube, E. and Choi, J. (2024). *Making ADS Vehicles Usable and Inclusive: Considerations for Accessibility*. National Highway Traffic Safety Administration.
2. Maisel, J., Choi, J., Nguyen, D., and Perez, B. (2021). *Traditional and Emerging Transportation Services for Older Adults and People with Disabilities*. Prepared for Toyota Social Innovation – Inclusive Mobility. Buffalo, NY: IDEA Center.
3. Ranahan, M., Perez, B., Gadzo, R., and Choi, J. (2017). *Age Friendly Erie County Report: Findings from a county-wide community assessment*. Available from [http://www.agefriendlywny.org/wp-content/uploads/2018/08/AFECreport\\_final06.26.2018.pdf](http://www.agefriendlywny.org/wp-content/uploads/2018/08/AFECreport_final06.26.2018.pdf).
4. Perez, B., Lenker, J., Paquet, V., Choi, J. and Steinfeld, E. (2017). *U.S. Access Board Report: Ascent and Descent Performance in Simulated Low-Floor Bus Ramp Deployment Conditions*.
5. Perez, B. and Choi, J. (2017). *Final Report: ATM PIN Concept Usability Testing*. Buffalo, NY: IDEA Center.
6. Yoo, Y. and Choi, J. (2013). *Jemulpo District Revitalization Plan*. Culture and Community. Namgu, Incheon.
7. Choi, J. (2013). *A Report on Revitalization Plan for Chungil Town*. Culture and Community. Gangwon Province.

#### 4.3 Publications: Book Chapters

1. Kim, S., Yoo, S., and Choi, J. (2011). Seogang, The Story Warehouse. In Zoh, K. and Oh, H. (Eds.), *Abandoned Railway, Meets Community*. Culture and Community.

#### 4.4 Manuscripts in Progress

1. Choi, J., and Maisel, J.L. (2024). Comparing User Experiences with Traditional ADA Paratransit and On-Demand Mobility Services. *Transportation Research Interdisciplinary Perspectives*. [Manuscript submitted for publication]
2. Maisel, J.L., Choi, J., Perez, B., and Weidemann, S. (2024). Evaluating the Effectiveness of Universal Design Implementation in a Workplace Environment. [Manuscript submitted for publication]

#### 5. Conference Presentations and Papers

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1. Choi, J. (2022, June). Designing Inclusive AVs: Making Them More Usable, Safer and Healthier to Meet the Needs of an Increasingly Diverse Population. Presentation at the ASCE International Conference on Transportation & Development 2022, Seattle, WA, June 3, 2022.
2. Choi, J. (2021, July). Physical and Human Access: Accessibility. Presentation at the 2021 *Automated Road Transportation Symposium*, Online, July 13, 2021.
3. Choi, J., Maisel, J.L., and Perez, B. (2020, November). Assessing the Implementation of New On-Demand Mobility Service. Presentation at the *Annual Conference of Association of Collegiate Schools of Planning*, Online, November 7, 2020.
4. Choi, J. and Kang, B. (2018, October). Building Location History with GPS Data for Older Adults. Presentation at the *Annual Conference of Association of Collegiate Schools of Planning*, Buffalo, NY, October 28, 2018.
5. Choi, J. and Park, J. (2017, October). Developing Problematic Performance Value Scores: Ties that bind individual health conditions, environmental barriers and problematic behaviors. Presentation and paper at the *Annual Conference of Association of Collegiate Schools of Planning*, Denver, CO, October 13, 2017.
6. Kang, B. and Choi, J. (2017, June). Activity space, mobility, and physical performance of older adults. Paper at the *2017 International Conference of Transport and Health*, Barcelona, Spain. June 27, 2017.
7. Choi, J. (2012, August). Community-Oriented Approach in Mega Sport Event Planning – Strategic Planning for Gangneung Venues of 2018 PyeongChang Winter Olympics. Presentation and paper at Green Community Design, The 8th International Conference of the Pacific Rim Community Design Network, Seoul, South Korea, August 23, 2012.

## 6. Teaching

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### 6.1 Teaching: As Teaching Assistant

University at Buffalo Department of Architecture/Department of Urban and Regional Planning

- Fall 2018            END350 Environmental Design Workshop I: Methods of Design Inquiry
- Taught 35 students in lab sessions.
  - The course introduced basic skills on data acquisition from a variety of sources, data management, analysis, and cartography using the ArcGIS program.

### 6.2 Teaching: Guest Lecture

University at Buffalo Department of Architecture/Department of Urban and Regional Planning

- ARC 623/URP 558: Designing Inclusive Environments (Fall, 2018)
- END 308: Health and Urban Environments (Spring, 2021)

## 7. Service

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- Facilitated Planning for Partnership Workshop. Full-Day Workshop for Health Foundation for Western & Central New York grantees, Buffalo, NY (2019, July 24).
- Volunteer work at the Annual Conference of Association of Collegiate Schools of Planning, Buffalo, NY (2018, October 25-28)
- Volunteer work at AARP NY 2018 Leading on Livability Summit, Syracuse, NY (2018, August 2-3).