

# SOOWOONG “SCOTT” NOH, PH.D.

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[Web portfolio link](#)

School of Public Administration  
University of Central Florida  
Orlando, FL

## EDUCATION

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<b>PhD</b>	University of Florida, FL College of Design, Planning & Construction Specialized in Urban Design, and GIS applications	Dec 2015
	<b>PhD coursework completion</b> Seoul National University, Korea Interdisciplinary Program in Urban design	Feb 2007
<b>MLA</b>	Seoul National University, Korea Graduate School of Environmental studies Concentration: Urban Design	Feb 2005
<b>BS</b>	Hongik University, Korea Urban Engineering	Feb 2003

## TEACHING AND RESEARCH EXPERIENCE

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**University of Central Florida, FL** Dec 2022 to Present  
**Lecturer**, School of Public Administration

**University of Florida, FL** Mar 2017 to Mar 2022  
**Post-Doctoral Associate**, Department of Urban and Regional Planning

- Geospatial 3D Modeling, Simulation, and Visualization: Research and develop a methodology for integration of Rule-based Modeling, Microsimulation, and Virtual Reality for urban design.
- Applying Gap Modeling to Inform Improvement of Transportation Services for Vulnerable Populations at the Local and Regional Levels: Apply and assess the geospatial model developed from previous project with local agencies.
- Signal Four Analytics (Florida State Crash Information and Visualization System): Work as analyst and program manager and help with upgrade version of the system (<https://www.signal4analytics.com>).
- Geospatial Model for Identifying Transportation Service Availability Gaps (Completed): Developed GIS accessibility model to assess and visualize transportation gaps for transportation disadvantaged ([Report Link](#)).

- Changing Access to Public Transportation and the Potential for Increased Travel (Completed): Developed scenarios of possible reductions in transit service and their impact on vulnerable populations.

**University of Florida, FL**

Aug 2016 to Dec 2021

**Instructor**, Department of Urban and Regional Planning

- 3D Geospatial Urban Modeling & Visualization (a graduate course), advanced 3D GIS database, LiDAR application, 3D analyst tool, CityEngine, basic and advanced grammar of Computer Generated Architecture, and final project.
- Planning & Design 1 (a graduate course), covering the following topics: urban design theories, dimensions of urban design including morphological, perceptual, visual, social, and functional, SketchUp workshop, and community based final project.
- 3D Modeling, Visualization and Simulation (an undergraduate course), covering the following topics: basic 3D GIS database, understanding LiDAR, 3D analyst tool, CityEngine, basic grammar of Computer Generated Architecture, and final project.
  - Revised the syllabus to meet accreditation (PAB) standards
  - Developed in class exercise and homework
  - Coordinated grading and exercise with teaching assistants
  - Guided students to apply learned skills/theories to various research project

**University of Florida, FL**

Jan 2016 to Feb 2017

**Researcher**, Department of Urban and Regional Planning

- Big Data Project Services: Assimilated, analyzed, and visualize GIS datasets to improve pedestrian safety with computer science and transportation research team.

**University of Florida, FL**

Jul 2012 to Dec 2015

**Research Assistant**, Department of Urban and Regional Planning

- Safety Project Development Capacity for Small Communities: Analyzed and visualized crash information to improve transportation safety ([Report Link](#)).
- Reimagining the Form of Rural Coastal Communities in Response to Sea Level Rise: Developed 3D visualization of sea level rising scenarios for planning recommendation.

**University of Florida, FL**

Jan 2012 to May 2015

**Teaching Assistant**, Department of Urban and Regional Planning

- 3D Geospatial Urban Modeling & Visualization (a graduate course)
- Planning & Design 1 (a graduate course)
- Planning & Design 2 (a graduate course)
- Urban GeoDesign Studio (a graduate course)
  - Reviewed material taught in class with individual students with learning challenges
  - Assisted instructors with various tasks
  - Helped students adjust, learn, and socialize
  - Stimulated class discussion

**Korean Research Institute of Human Settlement, Korea**

Jun 2005 to Aug 2005

**Researcher**

- New Multi-Functional Administrative City in the Republic of Korea

**Seoul National University, Korea** Mar 2005 to Jun 2005  
**Teaching Assistant**, Interdisciplinary Program in Urban Design

- Urban Design Studio (a graduate course)
  - Assisted instructors with various tasks
  - Helped students adjust, learn, and socialize

**Seoul National University, Korea** Mar 2003 to Aug 2004  
**Graduate Student Researcher**, Environmental Planning Institute

- Traditional market revitalization
- Greenway project for Seoul

## **PROFESSIONAL EXPERIENCE**

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As a registered urban planner in South Korea, I completed several urban design projects, housing developments, and a campus master plan.

**TAEHA & KYWC Engineering & Architecture, Korea** Jan 2007 to Jul 2010  
**Project Manager**, Department of Urban Planning and Design

- Projects: Seoul Grand Park Renovation International Competition, Urban design proposal (urban infill, CBD redevelopment, & brownfield), Multi-family housing development, Industrial park land use plan, Urban design codes revision, & Campus master plan
  - Collaborated in the development of concept for international competition with Apogee Attractions (Boston, MA)
  - Initiated and developed urban design proposal
  - Proposed and designed housing development
  - Participated in industrial park plan
  - Revised CBD redevelopment plan proposal
  - Coordinated campus master plan

**Kangho Engineering & Architecture, Korea** Nov 2005 to Dec 2006  
**Assistant Project Manager**, Department of Urban Planning

- Projects: Redevelopment project (residential areas & CBD)
  - Performed mapping and analysis for urban renewal projects

## **PUBLICATIONS**

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### ***Journal Publications*** (\*Corresponding author)

Bejleri, I., **Noh, S.\***, Bufkin, J. N., Zhou, R., & Wasserman, D. (2021). Using 3D Rule-Based Modeling to Interactively Visualize “Complete Streets” Design Scenarios. *Transportation Research Record: Journal of the Transportation Research Board*, 2675(10), 14–30. <https://doi.org/10.1177/0361198121999051>

Bejleri, I., **Noh, S.\***, Gu, Z., Steiner, R., & Winter, S. (2018). Identifying Spatial Deficiencies in Alternative Transportation Services for Vulnerable Populations. *Transportation Research*

*Record: Journal of the Transportation Research Board*, 2672(8), 649-661.  
<https://doi.org/10.1177/0361198118794290>

**Noh, S.** (2018). Assessing Active Living Potential: Case Study of Jacksonville, Florida. *Urban Science.*, 2(2), 44; <https://doi.org/10.3390/urbansci2020044>

### ***Journal Papers in Progress***

**Noh, S.** (2022). *Assessing the availability of alternative transportation services for older adults by age group: a case study of Florida.*

**Noh, S. & Bejleri, I.** (2022). *The impacts of residential property value around SunRail stations in Metroplan Orlando, Florida: Does on-demand shared mobility service make difference?*

**Noh, S.** (2022). *Rule-based urban design modeling using Form-based codes*

Bejleri, I., **Noh, S.**, Zhu, C., Finnerty, J., & Bufkin, J. N. (2022). *Integrating sustainability measures into rule-based street design approach.*

Bejleri, I., **Noh, S.**, & Lee, I. J. (2022) *Measuring spatial gaps between transportation provision and the needs of low-income older adults.*

Bejleri, I., **Noh, S.**, Zhu, C., Chen, K., & Bufkin, J. (2022) *Does delivery method of Virtual Reality technology affect people's visual perceptions of urban design?.*

Bejleri, I., Chen, C., Zhai, L., & **Noh, S.** (2022). *A GIS toolkit for Accessibility Modeling of Public Transportation.*

Zhu, C., Bejleri, I., & **Noh, S.** (2022). *A Crowdsourcing Platform for Participatory Urban Design using 3D Visualization Applications.*

Bufkin, J., Bejleri, I., & **Noh, S.** (2022). *Evaluation of Complete Streets Design: a systematic review.*

**Noh, S.** (2023). *Built environment for active living: zoning vs. Form-Based Codes.*

### ***Research Reports***

Bejleri, I., **Noh, S.**, Lee, I.J., & Steiner, R. (2021). *Applying Gap Modeling to Inform Improvement of Transportation Services for Vulnerable Populations at the Local and Regional Levels.* FDOT contract BDV31-977-106.

Steiner, R., Bejleri, I., Bai, X., Han, M., & **Noh, S.** (2019). *Partnerships with TNCs to Better Serve the Transportation Disadvantaged Populations*. STRIDE project A2-Changing Access to Public Transportation and the Potential for Increased Travel.

Bejleri, I., **Noh, S.**, Steiner, R., Winter, S., & Gu, Z. (2018). *Geospatial Model for Identifying Transportation Service Availability Gaps for Florida's Vulnerable Populations*. FDOT contract BDV31-977-67.

Ranka, S., Srinivasan, S., Bejleri, I., **Noh, S.**, Gheibi, S., Yan, Y., Jermprapai, K., & Mahajan, D. (2018). *Big Data Project Services: Application Requirements Analysis*. FDOT Contract BDV31-562-1.

Ranka, S., Srinivasan, S., Bejleri, I., **Noh, S.**, Gheibi, S., Yan, Y., Jermprapai, K., & Mahajan, D. (2018). *Big Data Project Services: Regional Impacts of Transportation Investments*. FDOT Contract BDV31-562-1.

Bejleri, I., Ledew, C., Goodknight, J., Srinivasan, S., & **Noh, S.** (2015). *Implementing a Transportation Safety Center through Florida Local Technical Assistance Program*. FDOT Contract BDV33-945-1.

Bejleri, I., Goodknight, J., Srinivasan, S., Barker, N., Haas, P., & **Noh, S.** (2013). *Safety project development capacity for small communities in coordination with local technical assistance program (LTAP) center*. FDOT Contract BDK77-977-21.

## CONFERENCE PRESENTATIONS

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**Noh, S.** (2022, April). *Assessing alternative transportation availability for older adults: a case study of Florida*. Abstract accepted for presentation at the 50<sup>th</sup> annual conference of Urban Affairs Association.

Bejleri, I., **Noh, S.**, Chen, C., & Zhai, L. (2022, January). *A GIS toolkit for modeling transit accessibility to services*. Paper accepted for presentation at the Transportation Research Board annual meeting.

**Noh, S.**, Bejleri, I., & Lee, I. J. (2021, October). *Identifying spatial gaps in alternative transportation services for low-income older adults by age group*. Paper presented at the Association of Collegiate Schools of Planning 2021 Annual Conference.

Bejleri, I., **Noh, S.**, Zhu, C., & Bufkin, J. (2021, October). *Visualizing Complete Streets scenarios generated from 3D rule-based modeling and traffic simulation in VR*. Paper presented at the Association of Collegiate Schools of Planning 2021 Annual Conference.

Bejleri, I., **Noh, S.**, Bufkin, J., & Zhu, C. (2021, July). *Application of CityEngine 3D rule-based modeling for Complete Streets designs*. Paper presented at the ESRI User Conference 2021.

**Noh, S.**, Bejleri, I., & Lee, I. J. (2021, July). *GIS modeling to improve mobility options for the transportation disadvantaged*. Paper presented at the ESRI User Conference 2021.

**Noh, S.**, Bejleri, I., Zhai, L., & Chen, C. (2021, June). *Measuring and Improving Accessibility to Public Transit: The Transit Accessibility Analyst Application*. Paper presented at the 18th TRB Conference on Transportation Planning Applications.

**Noh, S.**, Bufkin, J., & Bejleri, I. (2021, January). *Interactively visualizing and sharing Complete Street design scenarios using 3D rule-based modeling*. Paper presented at the Transportation Research Board annual meeting.

Bejleri, I., **Noh, S.**, Bufkin, J. Zhu, C., Pierre-Jean, R., O'Connell, M., Cohen, B., Bejleri, E. (2021, January). *Visualizing Procedurally Generated Street Designs and Traffic Simulation in a Virtual Reality Experience*. Paper presented at the Transportation Research Board annual meeting.

**Noh, S.** (2020, February). *Assessment of Active Living Potential: Form-based Codes vs. Conventional Zoning Regulation*. Paper presented at the Active Living Conference 2020, Orlando, FL.

Bejleri, I., **Noh, S.**, Bufkin, J. Zhou, R., & Wasserman, D. (2019, November). *Using 3D Complete Streets Rule Based Modeling in a Geospatial Framework to Interactively Evaluate Street Design Scenarios*. Paper presented at the 9<sup>th</sup> International Visualization in Transportation Symposium.

**Noh, S.**, Bejleri, I., & Steiner, R. (2019, October). *A geospatial model to assess alternative transportation service accessibility*. Paper presented at Association of Collegiate Schools of Planning 59th Annual Conference, Greenville, SC.

Bejleri, I., Zhou, R., & **Noh, S.** (2019, October). *Exploring street design scenarios using geospatial 3D parametric modeling*. Paper presented at Association of Collegiate Schools of Planning 59th Annual Conference, Greenville, SC.

Steiner, R., Bejleri, I., Bai, X., **Noh, S.**, & Han, M. (2019, October). *Improving Transportation Accessibility for the Transportation Disadvantaged: Collaboration Between Transit Agencies and TNCs*. Paper presented at Association of Collegiate Schools of Planning 59th Annual Conference, Greenville, SC.

**Noh, S.** (2018, October). *Identifying spatial gaps in transportation options for older adults*. Paper presented at Association of Collegiate Schools of Planning 58th Annual Conference, Buffalo, NY.

Bejleri, I., **Noh, S.**, Gu, Z., Steiner, R. L., & Winter, S. M. (2018, January). Analytical method to determine transportation service gaps for transportation disadvantaged populations. Poster presented at 2018 TRB annual meeting, Washington. DC.

**Noh, S.,** Bejleri, I., & Steiner, R. (2017, November). *Identifying Deficiencies in Alternative Transportation Services for Transportation Disadvantaged Populations*. Paper presented at 5th Annual UTC Conference for the Southeastern Region, Gainesville, FL.

**Noh, S.** (2017, October). *Geospatial Dimension for Active Living: Jacksonville (FL) Case Study*. Paper presented at Association of Collegiate Schools of Planning 57th Annual Conference, Denver, CO.

**Noh, S.,** Bejleri, I., Mahajan, D., Ranka, S. & Srinivasan, S. (2017, October). *Assessing Effectiveness of Transportation Projects Using Sentiment Analysis of Social Media*. Poster presented at Association of Collegiate Schools of Planning 57th Annual Conference, Denver, CO.

Yoon, S., **Noh, S.,** & Bejleri, I. (2017, October). *Assessing built environment and its impact on health: Case study of Orlando MSA*. Poster presented at Association of Collegiate Schools of Planning 57th Annual Conference, Denver, CO.

Bejleri, I., **Noh, S.,** & Gu, Z. (2017, October). *Identifying spatial gaps in transportation options serving vulnerable populations*. Paper presented at Association of Collegiate Schools of Planning 57th Annual Conference, Denver, CO.

**Noh, S.** (2017, April). *Methodological approach to develop a comprehensive geospatial dimension analysis of active built environment*. Paper presented at 47th Urban Affairs Association Conference, Minneapolis, MN.

**Noh, S.** (2016, November). *Active built environment: form-based codes or conventional zoning Regulations?* Paper presented at Association of Collegiate Schools of Planning 56th Annual Conference, Portland, OR.

Bejleri, I., **Noh, S.,** & Gu, Z. (2016, November). *Mobility for transportation disadvantaged: developing a composite Transportation accessibility index*. Paper presented at Association of Collegiate Schools of Planning 56th Annual Conference, Portland, OR.

**Noh, S.** (2015, October). *Assessing mobility options for transportation disadvantaged using Geographic Information Systems: a Florida case study*. Paper presented at Association of Collegiate Schools of Planning 55th Annual Conference, Houston, TX.

**Noh, S.** (2015, March). *FBCs for Healthier Cities: The relationship between urban forms and physical activity opportunities*. Poster presented at the 10th Annual conference, the Florida Society of Social Sciences, Gainesville, FL.

**Noh, S. &** Bejleri, I. (2014, October). *Examining the relationship between FBCs and active built environment: preliminary analysis*. Paper presented at the Association of Collegiate Schools of Planning 54th Annual Conference, Philadelphia, PA.

## PROFESSIONAL SERVICE

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### Peer-Reviewed Articles for:

- International Journal of Environmental Research and Public Health (Reviewer Board Member)
- Urban Design International
- Sustainability

### Collaborator,

Dec 2013 – Aug 2014

College of Design, Construction, and Planning, University of Florida

- Consulted for curriculum committee to develop new undergraduate Geodesign program

## HONORS AND AWARDS

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### Carl Feiss Urban and Environmental Design Award

2015

Demonstrated significant promise relative to future professional or academic success in urban and environmental design

### Excellence Prize

2002

Awarded by Korean Professional Urban Planner's Association for terminal project

## LICENSE

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### Urban Planning Engineer

2004

Human Resources Development Service of Korea, Korea

## COMPUTER SKILLS

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**Applications:** ArcGIS, CityEngine, Tableau, Adobe Suite (Photoshop, Illustrator, InDesign), Gimp, Microsoft Application, AutoCAD, SketchUp, SPSS

**Programming:** python (basic)