

BINBIN PENG

National Center for Smart Growth
School of Architecture, Planning, and Preservation
University of Maryland
College Park, MD 20742
bpeng91@umd.edu

EDUCATION

- Aug. 2016-
Present **Ph.D. Candidate**, Urban, and Regional Planning and Design, School of Architecture, Planning and Preservation, University of Maryland (UMD)
- Dec. 2015 **M.A.**, Urban and Regional Planning, College of Design, Construction and Planning, University of Florida (UF)
Thesis: "Cost-benefit Analysis of Building Levees to Mitigate the Joint Effects of Storm Surge and Sea-Level Rise: A Case Study in City of Miami, FL."
Committee Member: Zhongren Peng, Katheryn Frank
- June. 2012 **B. Eng.**, Industrial/Mechanical Design, College of Engineering, China Agricultural University (CAU), Beijing, China
Honors Thesis: "Feasibility Analysis and 3D Modeling of Planetary Wheel Obstacle-Crossing Car in the Farmland Environments."
Supervisor: Huixing Zhou, Pingyi Liu

RESEARCH INTERESTS

Climate adaptation planning; Coastal resilience, hazards mitigation, infrastructure planning; Built Environment and Health; Stormwater BMPs; Transportation safety; Climate justice, environmental justice

PUBLICATIONS

1. Gu, Z., & Peng, B., Investigation into the Built Environment Impacts on Pedestrian Crash Frequencies during Morning, Noon/Afternoon, Night, and Peak hours: A Case Study in Miami County, Florida. *Journal of Transportation Safety and Security*, forthcoming
2. Peng, B., & Song, J. (2018). A Case Study of Preliminary Cost-Benefit Analysis of Building Levees to Mitigate the Joint Effects of Sea Level Rise and Storm Surge. *Water*, 10(2), 169.
3. Song, J., & Peng, B. (2017). Should We Leave? Attitudes towards Relocation in Response to Sea Level Rise. *Water*, 9(12), 941.

ACADEMIC PRESENTATIONS

- 2019 **Oral Presentation**, "A Spatial-econometric Analysis of Extreme Weather Events on Traffic Accidents with A Case Study in Florida." At the Association of Collegiate Schools of Planning Conference, in Nov, 2019
- 2018 **Guest Presentation**, Urban and Regional Planning and Design Ph.D. Seminar with a working paper titled "Evaluating the Cost-Efficiency of Implementing Adaptation Strategies to Mitigate the Rising Sea Levels."
- 2017 **Poster Presentation**, Poster accepted and present for Environmental Design Research Association (EDRA) 48th conference, "Attitudes and Preferences for Residential Stormwater BMPs: A Comparative Case Study."
- 2016 **Invited Presenter**, United Nations Educational, Scientific, and Cultural Organization (UNESCO) World Field Laboratory, "Sea Level Rise and the Future of Coastal Urban Settlements Miami," February

AWARDS & GRANTS, FELLOWSHIPS & SCHOLARSHIPS

- 2019 Maryland Sustainable Growth Challenge Winner Award, Department of Planning, State of Maryland
- Summer 2018 UMD Graduate Student Summer Research Fellowship \$5,000
- Feb. 2018 Boston Short Course on Coastal Adaptation and Resiliency – NSF \$800

	Research Collaboration Network (RCN) Travel Grant	
2016 & 2019	Jacob K. Goldhaber Travel Award, Graduate School, UMD	\$700/per year
2016-2018	Dean's Fellowship Doctoral Fellowship Program (Annual), UMD	\$10,000/per year
2013	Best Undergraduate Thesis Award, CAU, China	

SYNERGISTIC ACTIVITIES

- Chair for Graduate Research Appreciation Day planning committee for a flagship conference-style research event for graduate students across campus to award and appreciate the research excellence. More than 120 presentations were accepted and evaluated by 25 faculty and research staff judges in the year 2019.
- Lead graduate teaching advisor for student teams on a real-world project collaborated with Harford County to identify the potential streambank deteriorations. One student team was awarded the Maryland Sustainable Growth Challenge Award Winners, 2019-2020
- Accepted for a week-long short course at Boston on the Sustainable Adaptive Gradients in the Coastal Environment (SAGE): Reconceptualizing the Role of Infrastructure in Resilience. Collaborated with the peers to work on the adaptation strategy design project. Win the travel award and accommodations (highly selective)
- Accepted to join Socio-Environmental Synthesis Center (SESYNC) Graduate Student Workshop, a four-day workshop on socio-environmental synthesis. Becomes a research fellow after submitting a research proposal with team members to the SESYNC Graduate Pursuit Program – an 18-month long research project (highly selective)
- Lead project member in the Integrated Transport and Health Impact Modeling (ITHIM) project and collaborated in writing project proposal to the Department of Health, State of Maryland
- Graduate Councilors at the University of Maryland Graduate Council, help improve the graduate policies and rules adaptable to the general graduate student body
- Collaborated with peers and cohorts to organize the Urban and Regional Planning and Design Ph.D. program seminar which benefits the Ph.D. student across the school
- Accepted to the Cornell University's Structural Equation Modeling Short Course summer workshop

RESEARCH EXPERIENCE

10/2018-present	Graduate Pursuit Program, SESYNC Graduate Research Fellow, SESYNC
08/2016-present	Research Assistant, University of Maryland (UMD)
12/2015-03/2016	Research Assistant, Florida Resilient Communities Initiative, UF
2013-2015	Research Assistant, International Center for Adaptation Planning and Design, Urban and Regional Planning, University of Florida

WORKING EXPERIENCE

02/2016-08/2016	Strategic Planning and Spatial Analyst, Dobbin International Inc.
05/2014-08/2014	Internship, Tongji Urban Planning and Design Institute, Shanghai, China
04/2014-07/2014	Web Editor, American Planning Association (APA), USA

SKILLS & RESEARCH METHODS

Proficient with ArcGIS, R, Mplus, SPSS, Illustrator, Rhinoceros, ProE, Latex; Familiar with Stata, SAS,
Research methods: Latent variable analysis, Factor analysis, Structural Equation Modeling, Spatial Regression, Focus Group