

# AISHWARYA BORATE

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## TEACHING AND RESEARCH INTERESTS

Environmental Planning and Policy; Environmental and Climate Justice; GIS and Remote Sensing; and Advanced Quantitative Methods

## EDUCATION

- June 2024      **ABD Ph.D. Urban and Environmental Planning and Policy**  
 University of California, Irvine  
 Dissertation: Household Recovery Following Floods: How is it understood, measured, and what affects it? Case studies from India  
 Committee: Dr. Maura Allaire (Co-chair), Dr. David Feldman (Co-chair), Dr. Douglas Houston, and Dr. John Hipp
- 2018            **Masters of Urban and Regional Planning**  
 Virginia Polytechnic Institute and State University  
 Certification in Geospatial Information Technology  
 Thesis: Analysis of the Post-Sandy Single-Family Housing Market in Staten Island, New York  
 Committee: Dr. Yang Zhang (Chair), Dr. James Bohland, and Dr. Christopher Zobel
- 2012            **Bachelor of Technology in Planning**  
 College of Engineering, Pune

## PUBLICATIONS

- 2023            Bukvic, A., & **Borate, A.** (2023). Building flood resilience among older adults living in Miami-Dade County, Florida. *Disaster Medicine and Public Health Preparedness*, 1-23.
- 2021            Bukvic, A., **Borate, A.**, Hughes, S., Weaver, R., Imburgia, D., & Stiles Jr, W. A. (2021). Exploring neighborhood-level resilience to flooding: Why the context and scale matter. *Journal of Flood Risk Management*, e12698.
- 2020            Bukvic, A., & **Borate, A.** (2020). Developing coastal relocation policy: lessons learned from the FEMA Hazard Mitigation Grant Program. *Environmental Hazards*, 1-21.
- 2018            Bukvic, A., Gohlke, J., **Borate, A.**, & Suggs, J. (2018). Aging in flood-prone coastal areas: Discerning the health and well-being risk for older residents. *International journal of environmental research and public health*, 15(12), 2900.
- 2018            **Borate, A. B.** (2018). Analysis of Post-Sandy Single-Family Housing Market in Staten Island, New York (Master's thesis, Virginia Tech).

## WORK IN PROGRESS

- Under revision Jain, A., & **Borate, A.**, Leveraging networks to access basic services: Understanding preference for patronage and collective action networks based on housing structure. *Cities*.
- In preparation **Borate, A.**, Role of Social Capital in Post-Disaster Recovery of Households in India.
- Allaire, M., & **Borate, A.**, Disaster Impacts and Adaptation: The Economics of Flooding
- Borate, A.**, Household Recovery: A multidimensional approach. A Case study of July 2021 Chiplun flooding.

## FELLOWSHIPS, AWARDS, AND SCHOLARSHIPS

- 2024 Public Impact Fellowship - University of California, Irvine - **\$11,000**
- 2023 DTEI (Division of Teaching Excellence and Innovation) Fellowship, **\$5,000**
- Association of Collegiate Schools of Planning - Diversity & Inclusion Student Fellowship, **\$800**
- Climate and Urban Sustainability Program Award, **\$200**
- 2022 & 2023 Center for Asian Studies Research Grant, **\$1,600**
- Don Owen Water Policy & Science Fellowship, **\$5,000**
- 2022 American Association of University Women (AAUW) International Fellowship, **\$20,000**
- 2021 International Association of Emergency Managers (IAEM )Graduate Student Scholarship, **\$5,000**
- 2020 ICPSR - Scholarship for Public Administration, Public Policy, and Public Affairs
- 2019 Marsha Ritzdorf Award for Best Student Paper, School of Public and International Affairs, Virginia Tech
- 2017 Virginia Sea Grant Summer Fellowship at Clark Nexson, Virginia
- American Institute of Certified Planners Certificate for Academic Achievement, Virginia Tech
- 2016 JN TATA Gift scholarship; JN TATA Endowment loan scholarship for higher studies, and Travel Grant, **\$7,000**

## RESEARCH AND WORK EXPERIENCE

- 2023 - 2024 **Graduate Research Assistant** to Dr. Douglas Houston, University of California, Irvine  
Project: Wildland-Urban uLtrahazardous Flooding  
Description: Working on structural equation models to examine the hazard perception of residents living along the Wildland Urban Interface and urbanized lowlands.
- 2020 **Graduate Research Assistant** to Dr. Maura Allaire, University of California, Irvine  
Project: CoPe EAGER: Modeling the Social Ecology of Coastal Flood Risk

Description: Worked on social vulnerability assessments through the development of robust measures for coastal regions in the U.S.

- 2018 - 2019     **Hazard Mitigation Analyst**, Center for Geospatial Information Technology, Virginia Tech  
 Project: 2020 Hazard Mitigation Plan for Central Virginia Planning District Commission  
 Description: Work involved hazard identification and prioritization, asset inventory and evaluation, loss estimation (using HAZUS), vulnerability and risk assessment, designing strategies for stakeholder participation, and writing and editing the document.
- 2017-2018     **Graduate Research Assistant** to Dr. Anamaria Bukvic, Virginia Tech  
 Project: Human-Centered Computational Framework for Urban and Community Design of Resilient Coastal Cities.  
 Description: Work involved research, collaboration, data gathering, and statistical and spatial analysis.
- 2016 - 2018     **Graduate Research Assistant** to Dr. Yang Zhang, Virginia Tech  
 Project: Quantifying Natural Disasters' Impact on Neighborhood Transition  
 Description: Assessed the effects of natural disasters on the neighborhood transition process in New York City.
- Summer 2017   **Virginia Sea Grant Fellow**, Clark Nexsen  
 Description: Developed resilience frameworks, network accessibility models, and flood simulation models for the City of Hampton, Virginia.

## TEACHING EXPERIENCE

- 2023            **Instructor:** Intro to Statistics Workshop (Excel) for Masters of Urban Planning (MURP) students
- 2023            **Pedagogical Fellow:** Curriculum Design for Professional Report Course for Masters of Urban Planning students (Dr. Jessica Garrison)
- Teaching Assistant:** Leading labs and discussion sessions, grading and assessment, and holding office hours.
- 2023            UPPP 204: Plan Development and Communication (Dr. Virginia Parks)  
 SE 195 W: Social Ecology Field Study (Dr. Hun Kim)  
 UPPP 4: Introduction to Urban Studies (Dr. Lorne Platt)  
 UPPP 113: Poverty and Change in Developing Countries (Dr. Seth Pipkin)
- 2022            UPPP 103: Comparative Urbanization (Dr. Seth Pipkin)  
 SE 13: Statistical Analysis (Prami Sengupta)  
 UPPP 125: Advanced GIS (Dr. Jessica Garrison)
- 2021            SE 13: Statistical Analysis (Prami Sengupta)  
 UPPP 120: GIS Planning and Policy (Dr. Jessica Garrison)
- 2020            UPPP 120: GIS Planning and Policy (Dr. Jessica Garrison)  
 SE 10: Research Design (Dr. Karna Wong)

2019 UPPP 100: Introduction to GIS (Dr. Deyanira Martinez)

## PRESENTATIONS

- 2023 **Borate, A.**, "Household Recovery: Role of Social Capital A case of 2008 flooding in India". Association of Collegiate Schools of Planning (ACSP) Conference.
- 2023 **Borate, A.**. "Disaster Recovery: Multidimensional assessments for fairer policies". American Association of University Women (AAUW)
- 2020 Allaire, M., **Borate, A.** Social Disparities in Flood Vulnerability: Validating Indicators across Time, Space, and Scale of Analysis. Association of Collegiate Schools of Planning Annual Conference
- 2020 **Borate, A.**, Allaire, M. "Socioeconomic Impacts of Flooding in the U.S.." Climate Adaptation Research Symposium - Measuring and Reducing Societal Impacts
- 2018 **Borate, A.** Pryor, D. "Climate Change Resiliency." Environment Virginia Symposium
- 2017 Zhang, Y., **Borate, A.**, Buchannan, E., Zobel, Z. "Hurricane Sandy's Impact on the Housing Market in New York City." Association of Collegiate Schools of Planning Annual Conference
- 2017 **Borate, A.**, "Place-Based Model: Social Infrastructure in Disaster Resiliency." Virginia Sea Grant Symposium

## DEPARTMENTAL/ UNIVERSITY SERVICE

- 2023-2024 Mentor to first-generation graduate students through the UCI Next Gen Navigators program  
Urban and Environmental Planning and Policy (UEPP) Ph.D. Student Representative  
Social Ecology Graduate Student Association (SEGSA) Student Representative
- 2022 Bridge Mentor to incoming Ph.D. Students in Urban Planning and Policy
- 2020-2022 Graduate Interconnect Program (GIC) Peer Mentor to incoming international graduate students

## PEDAGOGICAL AND MENTORING CERTIFICATIONS

- 2023 Division of Teaching Excellence and Innovation (DTEI) Graduate Scholars Program
- 2023 Preparing for Faculty Career Certification
- 2020 Mentoring Excellence Program

## WORKSHOPS

- 2021 ICPSR Summer program in quantitative methods - Causal Inference, Introduction to R, Multilevel models, Panel/ Longitudinal Data Analysis
- 2020 SESYNC (National Socio-Environmental Synthesis Center) Graduate Leaders in S-E Synthesis
- 2018 Local Floodplain Management