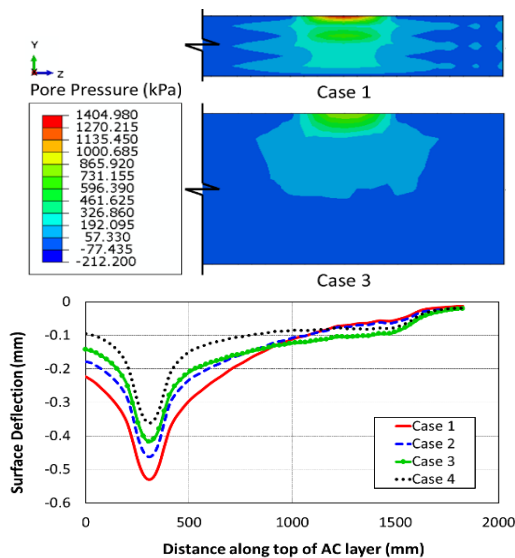
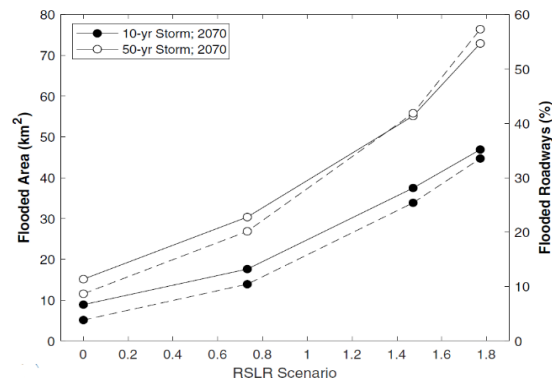
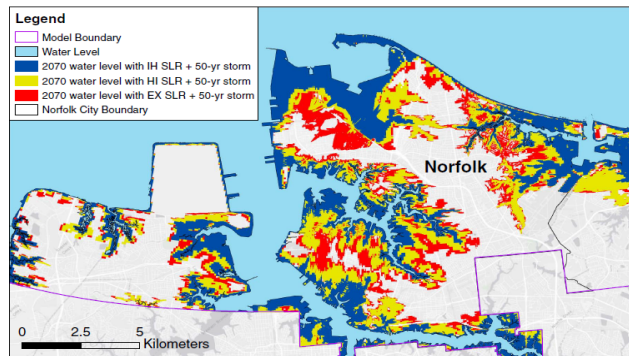


Looking for a fully funded GRA to work on “Transportation Systems and Flood Resilience under Dynamic Sea Level Rise: Integrated Modeling to Assess Natural and Nature-Based Solutions for Roadway Flooding.”



Overview. Storm tides and recurrent nuisance flooding alter the landscape and ecosystems, and threaten the economy of the coastal areas. Climate change has exacerbated flood risk through increasing the frequency of intense tropical cyclones, higher extreme waves, global sea level rise, and more intense rainfalls. Compounding effects of storm tide and rainfall-induced inundation has exacerbated flood risks. Coastal surface transportation networks are specifically at risk from intensified flooding due to relative sea level rise. Despite advances in flood modeling, there is a lack of understanding of how dynamic effects of relative sea level rise affect future roadway inundation, how future flooding

intensifies damages to pavement structure. We are looking for a graduate student to conduct research in the area of “Transportation Systems and Flood Resilience under Dynamic Sea Level Rise: Integrated Modeling to Assess Natural and Nature-Based Solutions for Roadway Flooding.”

Qualifications:

- B.S. or M.S. degree in civil engineering.
- Strong written and oral communication skills.
- Preferred candidate: experience in programming and Abaqus

Advisor: Prof. Maryam Shakiba

Start date: Fall 2024.

Salary: Fully funded GRA.

To apply: Please send your CV to maryam.shakiba@colorado.edu.