



Dr. Danghan Xie, Ph.D.
Assistant Professor
Department of Geographical Sciences
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Fully Funded PhD Position: Coastal Geomorphology – Fall 2027

Dr. Danghan Xie is recruiting 1-2 fully funded PhD students to join his research group in the Department of Geographical Sciences at the University of Maryland, College Park, beginning in Fall 2027. Funding is provided through a teaching and/or research assistantship with stipend and full tuition remission.

Potential Research Areas

Research topics can be tailored to the student's background and interests, including:

- Coastal morphodynamics and sediment transport
- Coastal flooding and coastal hazard assessment
- Coastal wetland ecomorphodynamics
- Integration of lidar, satellite, drone, and field observations with coastal process models
- Data-driven and physics-guided approaches for coastal modeling and prediction

Qualifications

Applicants should hold a BS or MS in Geography, Geosciences, Engineering, Oceanography, Environmental Science, or related fields.

Preferred skills (one or more is desirable):

- Background in hydrodynamics, sediment transport, or geomorphology
- Numerical modeling experience
- GIS, remote sensing, or geospatial data analysis
- Programming (Python, MATLAB, R, etc.)
- Strong quantitative background

Students with strengths in either process-based modeling or geospatial/data analysis who are interested in developing complementary skills are particularly encouraged to apply.

About the PI

Dr. Danghan Xie is an Assistant Professor in the Department of Geographical Sciences at the University of Maryland, College Park. His research integrates coastal process modeling, field observations, and geospatial data to understand coastal morphodynamics, sediment transport, wetland evolution, and coastal hazards.

The University of Maryland is a top-20 U.S. public university (#16, U.S. News & World Report) and offers a highly collaborative research environment in the Washington, D.C. metropolitan area, near major federal research agencies.

How to Apply

Please email Dr. Danghan Xie (danghan@umd.edu) with the following materials: 1) CV, 2) a one-page description of research background, interests, and potential PhD research directions, and 3) unofficial transcript(s).

The formal application must be submitted to the University of Maryland PhD Program in Geographical Sciences by December 15, 2026. Program information and application requirements can be found [here](#).