

# Riasad Bin Mahbub

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Senior Graduate Research Assistant, University of Arkansas

ENGR 112, University of Arkansas, Fayetteville, AR 72701

United States of America



## Professional Summary

Environmental scientist and research professional with over 5 years of experience in biogeochemical flux analysis, carbon and methane cycling, and precision agriculture. Expertise in remote sensing, data science, and environmental modeling. Proven track record of publishing in peer-reviewed journals and presenting at international conferences. Seeking a data-driven role in the environmental or agricultural development industry.

## Education

- Ph.D. Candidate, Environmental Dynamics  
University of Arkansas, 2021 – Present (Expected: 2025)
- M.S., Environmental Dynamics  
University of Arkansas, 2021 – 2023
- B.S., Environmental Science  
North South University, Dhaka, Bangladesh, 2015 – 2018

## Professional Experience

- Graduate Research Assistant  
University of Arkansas | 2021 – Present
  - Conducted remote sensing-based research to model gross primary productivity of rice.
  - Compiled 14 site-years of Ameriflux data and calibrated eddy covariance sensors.
  - Collaborated with interdisciplinary teams on field instrumentation and data modeling.
  - Presented research findings at AGU, ASABE, and Ameriflux conferences.
- Research Assistant  
Decoupling Lab, North South University | 2018 – 2020

- Analyzed remote sensing data to extract features from drone imagery.
- Co-authored peer-reviewed papers on sea turtle conservation and land use policy.
- Modeled land cover change using GIS and spatial statistics.

### **Selected Publications**

Mahbub, R. B. et al. (2025). Magnitude, drivers, and patterns of gross primary productivity of rice in Arkansas using a calibrated vegetation photosynthesis model. Agricultural and Forest Meteorology, <https://doi.org/10.1016/j.agrformet.2025.110583>

Mahbub, R. B. et al. (2019). Human appropriation of net primary production in Bangladesh, 1700–2100. Land Use Policy, <https://doi.org/10.1016/j.landusepol.2019.104067>

### **Technical Skills**

Python, R, ArcGIS, SPSS, Microsoft Office, Google Earth Engine, QGIS, Eddy Covariance Sensor Calibration, Ameriflux Data Protocols

### **Awards and Grants**

- Doctoral Academic Fellow, \$48,000 | University of Arkansas
- Multiple Travel Grants for AGU, ASABE, and Workshops | \$1100 each
- Graduate Student Award, Arkansas Soil and Water Education Conference | \$200

### **Professional Affiliations**

- Member, FLUXNET-Early Career Scientist Network
- Member, American Geophysical Union (2022–2023)