A qr code with a dinosaur

AI-generated content may be incorrect.Riasad Bin Mahbub

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)