

Bibek Acharya

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SUMMARY

Passionate researcher in the field of agricultural engineering. Primary focus on water quality management employing a multi-disciplinary approach of field research, process-based modeling, remote sensing, and machine learning techniques. Proven ability to publish and present research outcomes.

EDUCATION

University of Florida, Ph.D. in Agricultural and Biological Engineering. Anticipated Graduation: May 2024

PROFESSIONAL EXPERIENCE

2018 – Present, **Graduate Assistant**

- Role involves assisting field and modeling work on precision water and nutrient management, evapotranspiration, soil and crop growth dynamics, and crop water productivity.
- Provide hands on trainings to visiting scholars and students.

SKILLS

Programming Language: Python
Geospatial software: ERDAS IMAGINE, ENVI and ArcGIS
Process Based Models: DSSAT, HYDRUS, SWAT, WAVE
Version Control: GitHub
Statistical software: R, JMP Pro, SPSS

SELECTED AWARDS

2023 American Water Resources Association **Sanford N. Young Scholarship**
2023 American Society of Agriculture and Biological Engineers **Blue Ribbon award**
2023 University of Florida **McNair Bostick Scholarship**
2023 University of Florida **Water Institute Travel Award**
2020 University of Florida **Grinter Fellowship**
2018 Irrigation Association **E3 learner Education and Travel Award**

SELECTED PUBLICATIONS

2022: Methods to Quantify in-field Nutrient Leaching. <https://doi.org/10.32473/edis-ae581-2022>
2021: Comparison of Satellite Driven Surface Energy Balance Models in Estimating Crop Evapotranspiration in Semi-Arid to Arid Inter-Mountain Region. <https://doi.org/10.3390/rs13091822>

SELECTED CONFERENCE TALKS

2023: American Society of Agriculture and Biological Engineers (ASABE)
2022: American Society of Civil Engineers- Environmental and Water Resource Institute (ASCE-EWRI)

PROFESSIONAL AFFILIATIONS

American Society of Agricultural and Biological Engineers
American Water Resources Association
Soil Science; Agronomy and Crop Science Society of America

PROJECTS

- Assessing Nitrogen Transport in a Rotational Production System: Monitoring and Modeling for Water Quality Management: **Ph.D. Dissertation**
- Quantification and Mapping of Crop Evapotranspiration using Remote Sensing-based Surface Energy Balance Models: **M.S. Thesis**