**Bibek Acharya, Ph.D.**
Postdoctoral Research Associate
Texas A&M AgriLife Research, Vernon, TX
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## A. Professional Summary

Dedicated and passionate researcher in agricultural engineering with a focus on agricultural water management. Skilled in employing process-based modeling, remote sensing, and machine learning to address complex water quantity and quality challenges, including water use efficiency, water productivity, crop water production functions, solute transport, and evapotranspiration. Experienced in field experiments, long term scenario analysis, climate-based crop suitability assessment, and development of practical decision tools and recommendations for growers and other stakeholders.

## B. Education

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|---|---|---|---|
| 2024 | Ph.D. | Agricultural & Biological Engineering | University of Florida (UF), Gainesville, FL |
| 2020 | M. S. | Plant Sciences | University of Wyoming, Laramie, WY |
| 2017 | B. S. | Agriculture | Tribhuvan University, Nepal |

## C. Work Experience

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|---|---|
| 09/2024 – present | Postdoctoral Research Associate, Texas A&M Agrilife Research, Vernon, TX |
| 08/2020 – 08/2024 | Graduate Research Assistant, University of Florida, Gainesville, FL |
| 08/2018 – 08/2020 | Graduate Research Assistant, University of Wyoming, Laramie, WY |

## D. Awards and Honors

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|---|---|
| 2024 | Honorable Mention Emerging Scholar Award, University of Florida |
| 2024 | Graduate Student Research Paper Award |
| 2023 | Florida Stormwater Association Educational Foundation, FSA Florida |
| 2023 | Sanford N. Young Scholarship, AWRA Florida |
| 2023 | Educational Aids Blue Ribbon award, ASABE |
| 2023 | McNair Bostick Scholarship, University of Florida |
| 2020-2021 | Grinter Fellowship, University of Florida |
| 2018-2020 | Brand of Excellence - Y Cross Ranch Graduate Scholarship, University of Wyoming |
| 2018 | Irrigation Association's E3 Winner grant |
| 2013-2017 | Merit scholarship by IAAS, Tribhuvan University, Nepal |

## E. Grants

Ale, S. and Acharya, B. 2025. Leveraging machine learning to identify error sources in crop yield predictions. Cotton Incorporated. **Role: Co-PI**. Status: Funded. ($35,000; 01/2026-12/2026)

Ale, S.; Xue, Q.; Marek, T.; Ufodike, C.; Tabassum, S. 2025. Partnership: Precision irrigation management in corn - integrating sensors, crop models, and machine learning approaches. USDA-NIFA AFRI Foundational Program. **Role: Key personnel**. Status: Pending ($800,000; 04/2026-03/2029).

## F. Publications

Refereed Journal Articles: 7 (+ 5 in review)

Refereed Extension Articles: 1

Conference Papers: 33 (21 oral abstracts, 12 posters)