


**AMAN BHATTA**

 abhatta@umich.edu  
University of Michigan

**EDUCATION**

**PhD in Resource Ecology Management** Aug, 2022 – Ongoing  
School of Environment and Sustainability, University of Michigan

**Masters in Environmental Science (GIS and Remote Sensing)** May 2019  
School of Agriculture, Communities and the Environment, Kentucky State University

**Bachelors in Agriculture Science** Aug, 2015  
Institute of Agriculture and Animal Science, Tribhuwan University

**EXPERIENCE**

**Local Initiatives for Biodiversity, Research and Development (LI-BIRD)** 2021-2022  
Program Officer

- Identification and promotion of climate smart agricultural practices
- Promoting small and alternative Income Generating Activities (IGA) and skills in marginalized communities of Nepal
- Local Disaster Preparedness Plan

**Innovation for Sustainable Resource Management/AFU** 2020 – 2021  
Agriculture Research Specialist

- Land use change in major fertile valleys of Nepal
- Predicting rice grain yield of dry upland and irrigated low land areas
- Analysis of corn reflectance characteristics under different combinations of N fertilizer
- Facilitated trainings related to natural resource management and agriculture
- Coordination with farmers groups, cooperatives, and university
- Assisting statistics, GIS & remote sensing classes at Agriculture and Forestry University

**Kentucky State University** 2017-2019  
Graduate Research Assistant

- Land use change detection
- Soil erosion and sediment increment from landmine
- Using NDVI maps for change detection in vegetation
- Assisting on GIS lab session

**Local Initiatives for Biodiversity, Research and Development (LIBIRD)** 2016-2017  
Agriculture Officer

- Extension of Climate Smart Agriculture Technologies
- Coordination with government line agencies and local partner NGOs.
- Detailed Implementation Plan (DIP) & budget breakdown
- Training and Support to farmer groups

- Monitoring field progress & Reporting to central team

## AWARDS AND HONORS

- 3rd Place in Poster Presentation at Kentucky Academic Science
- Graduate Research Assistantship at Kentucky State University
- Full Scholarship for BS awarded by the Tribhuvan University (TU), Nepal

## PUBLICATIONS AND PRESENTATIONS

- Gyawali, B., Shrestha, S., Bhatta, A., Pokhrel, B., Cristan, R., Antonious, G., ... & Paudel, K. P. (2022). Assessing the Effect of Land-Use and Land-Cover Changes on Discharge and Sediment Yield in a Rural Coal-Mine Dominated Watershed in Kentucky, USA. *Water*, 14(4), 516.
- Bhatta A., & Buddhi G. (2018). Comparing Sediment Yield of Selected Forest Ecosystems Using SWAT in Bell Watershed, Kentucky. Paper presented at Kentucky Academy of Science Annual Meeting, Bowling Green, Kentucky.
- Bhatta A., & Buddhi G. (2018). Assessment of Land Cover, LST, and NDVI Change in Lexington at Fayette County, Kentucky. Paper presented at biannual meeting of Nepalese Agriculture Professional Association, Oklahoma City, Oklahoma.
- Bhatta A., Buddhi G., & Jeremy S. (2018). Comparison of Land Productivity Based on Net Primary Production in Owen and Graves Counties in Kentucky. Poster session presented at annual meeting of American Association of Geographers, New Orleans, Louisiana.

## TRAINING AND WORKSHOPS

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| • <b>R Programming</b><br>Course on <a href="https://www.udemy.com/">https://www.udemy.com/</a>                                       | <b>2021</b> |
| • <b>Working With ArcGIS Pro</b> (Instructor: Jennifer Harrison)<br>Kentucky Association of Mapping Professional Annual Meeting       | <b>2018</b> |
| • <b>Working With Python in ArcGIS</b> (Instructor: Jennifer Harrison)<br>Kentucky Association of Mapping Professional Annual Meeting | <b>2018</b> |
| • <b>Rangeland Hydrology and Erosion Model</b><br>Soil & Water Conservation Society International Annual Conference                   | <b>2018</b> |
| • <b>Training of Trainers on Integrated Pest Management</b><br>Plant Protection Directorate (PPD)                                     | <b>2017</b> |
| • <b>Short Course Design and Delivery</b><br>Local Initiatives for Biodiversity, Research and Development (LIBIRD)                    | <b>2016</b> |
| • <b>Sloping Agricultural Land Technology (SALT)</b><br>Sustainable Action for Resilience and Food Security Program                   | <b>2016</b> |
| • <b>Gender Equality and Social Inclusion (GESI)</b><br>Sustainable Action for Resilience and Food Security Program                   | <b>2016</b> |
| • <b>Proposal Writing</b><br>Group of Agriculture and Veterinary Students (GAVS)  | <b>2014</b> |