

# Mukti Ram Subedi

POST DOCTORAL ASSOCIATE

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*I am a forester, Geographic Information Science (GIS), and Remote Sensing (RS) scientist. My work focuses on the development and improvement of geospatial methods and tools for informed decision making.*

## Primary Research Methods

- Spatial Analysis and Mapping Using Geographic Object-Based Image Analysis (GEOBIA)
- Leveraging high-resolution Imagery, UAV, and LiDAR Data for Informed Decision-making
- Regression, (Non)Linear Mixed effect modelling, Multivariate Analysis
- Supervised and Unsupervised Machine learning
- Geospatial artificial intelligence (GeoAI) in natural resources management

## Education

### Texas Tech University

Lubbock, TX

PH.D.

Jan. 2019 - Aug. 2022

- Dissertation Title: "Leveraging NAIP, LiDAR and Sentinel data for accurate multiclass mapping of heterogenous grassland landscapes in Texas"
- Committee members: Drs. Carlos Portillo-Quintero (Dissertation chair), Samantha Kahl, Robert Cox, Nancy McIntyre, and Xiaopeng Song

### Texas A&M University

Kingsville, TX

M.Sc.

Jan. 2014 - Aug. 2016

- Thesis Title: "Evaluating geospatial distribution of drought, drought-induced tree mortality, and biomass loss in East Texas, U.S."
- Committee members: Drs. Weimin Xi (Thesis chair), Christopher Edgar, and Sandra Rideout-Hanzak

### Institute of Forestry, Tribhuvan University

Kritipur, Kathmandu

B.SC.-FORESTRY

Mar. 2005 - Jan. 2010

- thesis title: "Distribution pattern and Biomass Production of Cinnamomum tamala in Mijuredanda Village Development Committee (VDC) of Annapurna Conservation Area (ACA)."
- Committee members: Drs. Ishwar Chandra Dutta (Thesis chair), and Yajna Prasad Timilsina

## Publications

- The following notations apply to publications that have not been published yet.

@: manuscript accepted for publication.

\*: manuscript currently under review.

+: manuscript under preparation.

### REFEREED JOURNAL PAPERS

- 1.\* Hankins, M., Cramer, A., Beane, G., **Subedi, M.R.**, & Martin, J. (2025). Subsidized prey-base and landscape factors affect predator impacts on game bird survival. *Journal of Avian Biology*.
2. Pokhrel, N. R., **Subedi, M.R.**, & Malego, B. (2025). Fitting and evaluating taper functions to predict upper stem diameter of planted teak (*tectona grandis* l.f.) in eastern and central regions of nepal. *Forests*, 16(1). <https://doi.org/10.3390/f16010077>
3. **Subedi, M.R.**, & Portillo-Quintero. (2025). Evaluation of trends in urban tree cover in the city of lubbock, texas, using LiDAR and NAIP imagery fusion. *Science of Remote Sensing*, 11, 100240. <https://doi.org/https://doi.org/10.1016/j.srs.2025.100240>
- 4.@ Xi, W., **Subedi, M.R.**, Chaudhary, T., Dewez, N. P., Duffie, D. R., Estabrook, T., Bhatta, R. P., Liu, Z., Liu, Q., Liu, X., Chen, Y., Yan, M., & Rideout-hanzak, S. (2025). The impacts of an exceptional drought on forests in East Texas : Disparities in tree mortality, biomass loss and decrease in the carbon sink capacity. *Evaluation Monitoring Summary Report (USFS)*.

5. Dahl, L., Gordon, J., Young, A., **Subedi, M.R.**, Jennings, K., Lepine, L., Brandeis, T., & Dwivedi, P. (2024). Examining the impacts of urban tree structure and condition on adult depression in the united states. *Trees, Forests and People*, 19. <https://doi.org/https://doi.org/10.1016/j.tfp.2024.100734>
6. Dewez, N. P., Xi, W., Duffie, D. R., **Subedi, M.R.**, Chaudhary, T., Rideout-Hanzak, S., Anoruo, A. O., & Estabrook, T. (2024). Analysis of forest inventory data shows disparity in tree mortality and resistance in texas national forests. *Journal of Forestry*, 122(3), 232–243.
7. Liu, Z., Yan, M., **Subedi, M.R.**, Zhang, X., & Xi, W. (2024). The impacts of an exceptional drought on aboveground biomass in subtropical pine-dominant forests of texas, USA: 20 years of monitoring. *Interational Journal of Forestry Research*, 36(11).
8. **Subedi, M.R.**, Baeza-Castro, A. A., Dwivedi, P., Costanzo, B., & Martin, J. A. (2024). Modeling regional forest site productivity accounting spatial structure in climatic and edaphic variables. *Forest Ecology and Management*, 574, 122360. <https://doi.org/https://doi.org/10.1016/j.foreco.2024.122360>
9. **Subedi, M.R.**, Portillo-Quintero, C., Kahl, S. S., McIntyre, N. E., Cox, R. D., & Perry, G. (2024). Ensemble machine learning on the fusion of sentinel time series imagery with high-resolution orthoimagery for improved land use/land cover mapping. *Remote Sensing*, 16.
10. **Subedi, M.R.**, Portillo-Quintero, C., McIntyre, N. E., Kahl, S. S., Cox, R. D., Perry, G., & Song, X. (2024). Ensemble machine learning on the fusion of sentinel time series imagery with high-resolution orthoimagery for improved land use/land cover mapping. *Remote Sensing*, 16(15). <https://doi.org/10.3390/rs16152778>
11. Chaudhary, T., Xi, W., **Subedi, M.R.**, Rideout-Hanzak, S., Su, H., Dewez, N. P., & Clarke, S. (2023). East texas forests show strong resilience to exceptional drought. *Forestry*, 96(3), 326–339.
12. **Subedi, M.R.**, Portillo-Quintero, C., Kahl, S. S., McIntyre, N. E., Cox, R. D., & Perry, G. (2023). Leveraging NAIP imagery for accurate large-area land use/land cover mapping: A case study in central texas. *Photogrammetric Engineering & Remote Sensing*, 89(9), 547–560.
13. \* **Subedi, M.R.**, Portillo-Quintero, C., Kahl, S. S., McIntyre, N. E., Cox, R. D., Perry, G., & Song, X. (2023). Evaluating the role of LiDAR for high spatial resolution land use and land cover mapping in a grassland-dominated landscape. *Remote Sensing Applications: Society and Environment*.
14. **Subedi, M.R.**, Zhao, D., Dwivedi, P., Costanzo, B. E., & Martin, J. A. (2023). Site index models for loblolly pine forests in the southern united states developed with forest inventory and analysis data. *Forest Science*, 69(6), 597–609.
15. Gautam, D., Gaire, N. P., **Subedi, M.R.**, Sharma, R. P., Tripathi, S., Sigdel, R., Basnet, S., Miya, M. S., Chhetri, P. K., & Tong, X. (2022). Moisture, not temperature, in the pre-monsoon influences pinus wallichiana growth along the altitudinal and aspect gradients in the lower himalayas of central nepal. *Forests*, 13(11), 1771.
16. Portillo-Quintero, C., Grisham, B., Haukos, D., Boal, C. W., Hagen, C., Wan, Z., **Subedi, M.R.**, & Menkiti, N. (2022). Trends in lesser prairie-chicken habitat extent and distribution on the southern high plains. *Remote Sensing*, 14(15), 3780.
17. Portillo-Quintero, C., Hernández-Stefanoni, J. L., Reyes-Palomeque, G., & **Subedi, M.R.** (2022). Novel approaches in tropical forests mapping and monitoring–time for operationalization. In *Remote Sensing* (20; Vol. 14, p. 5068). MDPI.
18. Yan, M., Liu, Z., **Subedi, M.R.**, Linfeng, L., & Weimin, X. (2022). The complex impacts of unprecedented drought on forest tree mortality: A case study of dead trees in east texas, USA. *Chinese Journal of Ecology*, 42(3), 1034–1046.
19. Portillo-Quintero, C., Hernández-Stefanoni, J. L., Reyes-Palomeque, G., & **Subedi, M.R.** (2021). The road to operationalization of effective tropical forest monitoring systems. *Remote Sensing*, 13(7), 1370.
20. **Subedi, M.R.**, Xi, W., Edgar, C. B., Rideout-Hanzak, S., & Yan, M. (2021). Tree mortality and biomass loss in drought-affected forests of east texas, USA. *Journal of Forestry Research*, 32, 67–80.
21. Jackson, M., Portillo-Quintero, C., Cox, R., Ritchie, G., Johnson, M., Humagain, K., & **Subedi, M.R.** (2020). Season, classifier, and spatial resolution impact honey mesquite and yellow bluestem detection using an unmanned aerial system. *Rangeland Ecology & Management*, 73(5), 658–672.
22. Kina, K., Bhumpakhpan, N., Trisurat, Y., Mainmit, N., Ghimire, K., & **Subedi, M.R.** (2020). Analysis of potential distribution of tiger habitat using MaxEnt in chitwan national park, nepal. *Journal of Remote Sensing and GIS Association of Thailand*, 21(3), 1–15.
23. **Subedi, M.R.**, Oli, B. N., Shrestha, S., & Chhin, S. (2018). Height-diameter modeling of cinnamomum tamala grown in natural forest in mid-hill of nepal. *International Journal of Forestry Research*, 2018, 1–11.
24. **Subedi, M.R.**, Xi, W., Edgar, C. B., Rideout-Hanzak, S., & Hedquist, B. C. (2018). Assessment of geostatistical methods for spatiotemporal analysis of drought patterns in east texas, USA. *Spatial Information Research*, 1–11.
25. **Subedi, M.R.**, & Timilsina, Y. (2016). Evidence of user participation in community forest management in the

- mid-hills of nepal: A case of rule making and implementation. *Small-Scale Forestry*, 15(2), 257–270.
26. Oli, B., & **Subedi, M.R.** (2015). Effects of management activities on vegetation diversity, dispersion pattern and stand structure of community-managed forest (shorea robusta) in nepal. *International Journal of Biodiversity Science, Ecosystem Services & Management*, 11(2), 96–105.
27. **Subedi, M.R.**, & Timilsina, Y. P. (2014). Distribution pattern of cinnamomum tamala in annapurna conservation area, kaski, nepal. *Nepal Journal of Science and Technology*, 15(2), 29–36.
28. **Subedi, M.R.**, & Sharma, R. P. (2012). Allometric biomass models for bark of cinnamomum tamala in mid-hill of nepal. *Biomass and Bioenergy*, 47, 44–49.
29. Gyawali, A., & **Subedi, M.R.** (2011). Assessing the governance: Participation and transparency perspective. *Pratham Journal*, 16.
30. **Subedi, M.R.** (2009). Climate change and its potential effects on tree line position: An introduction and analysis. *Greenery–J. Environ. Biodiver*, 7, 17–21.

## Presentations

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### PEER-REVIEWED CONFERENCE PRESENTATIONS

- Subedi, M.R.**, Faison, L., Ruth, N., & Martin, J. A. (July, 2025). *Evaluating performances of machine and deep learning models in mapping shrub cover under managed pine savanna*. National Bobwhite & Grassland Initiative.
- Subedi, M.R.** (November, 2024). *Modeling Regional Forest Site Productivity Accounting Spatial Structure in the Climatic and Edaphic Variables*. Forest Inventory and Analysis (FIA) Science Symposium [Virtual].
- Subedi, M.R.** (October, 2023). *Site Index Modeling, Using Forest Inventory and Analysis (FIA) Data*. Joint Meeting of Southern and Northeastern Mensurationists (SOMENS & NEMO), Knoxville, TN.
- Subedi, M.R.** (February 2022). *Do LiDAR data offer a practical significance in LULC classification over NAIP data? comparing multiple machine learning algorithms using geographic object-based analysis coupled with target oriented validation*. Association of American Geographers (AAG), New York
- Subedi, M.R.** (December 2021). *Do LiDAR data provide practical significance to improve classification accuracy over NAIP Data? evidence from target-oriented validation strategies* North Central Texas Council of Governments [Virtual]
- Subedi, M.R.** (November 2021). *Large-area land use/land cover classification of very high-resolution imagery: accounting for spatial bias in sample data*. South Central Arc User Group (Grapevine, Texas).
- Xi, W., **Subedi, M.R.** Liu, Z & Yan M. (August 2021). *Widespread increase of tree mortality triggered by an exceptional drought in east Texas, USA*. Ecological Society of America (ESA, Virtual Annual Meeting 2021).
- Hedquest, Brent & **Subedi, M.R.** (April 2018). *Using Geospatial Tools for Documentation and Preservation of Historical Structures and in Undergraduate Experiential Learning at Rancho La Union, Zapata County, Texas*. American Association of Geographers.
- Subedi, M.R.** (April 2016). *Creating a Geographical Information System (GIS) Database for Documenting Historical Structures at Rancho La Union Ranch, Zapata County, Texas*. Poster presented at South Central Arc User Group Annual Meeting.
- Subedi, M.R.**, (November 2015). *Comparing interpolation techniques for Annual Standard Precipitation Evaporation Index (SPEI) mapping using multiple evaluation criteria: a case study of east Texas, USA*. Poster presented at Del Mar College on GIS Day.
- Subedi, M.R.** & Xi, Weimin (October, 2015). *Evaluating drought-induced tree mortality and biomass loss in east Texas forests*. Poster presented at Pathway symposium, at Texas A&M University-Corpus Christi.
- Subedi, M.R.** & Xi, Weimin (August, 2015). *Evaluating extreme drought-induced tree mortality and biomass loss in east Texas using Forest Inventory and Analysis (FIA) data*. Poster presented at 100th ESA meeting.
- Subedi, M.R.** & Xi, Weimin (April, 2014). *Spatiotemporal pattern and variability of drought in East Texas, USA*. Presented at Javelina research symposium, at Texas A&M University-Kingsville.

## Teaching Experience

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## Aerial Photo Interpretation (5404)

### INSTRUCTOR

- Developed new course content and laboratory materials.
- Taught classes alternatively with Dr. Carlos portillo
- Assisted Students in their final projects
- Software used: R, R-studio, Google Earth Engine, Erdas Imagine(20), ArcGIS Pro (2.x.x)

Texas Tech University

July. 2020 - Aug.2020

## GEOL 5312 ; GEOL 5313

### TEACHING ASSISTANT

- Duing spring, summer and fall semester
- Developed lab materials for Introduction to GIS (GEOL 5313)
- Assisted students for mid-term projects
- Taught ArcGIS online during summer semesters
- software: ArcGIS desktop (10.x), ENVI (5.x), ArcGIS online

TAMU-Kingsville

Aug. 2014 - Jul. 2016

## Math and Science in GIS

### UPWARD BOUND MATH AND SCIENCE STUDENTS

- Designed teaching materials
- Taught classes Monday through Thursday (1pm - 4:30pm)
- Course content focused on application of Math and Science in GIS

TAMU-Kingsville

Jun. 2016 - Jul. 2016

# Work Experience

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## Warnell School of Forestry

### POST-DOCTORAL ASSOCIATE

- Developed and executed a comprehensive Light Detection and Ranging (LiDAR) and Global Ecosystem Dynamics Investigation (GEDI) data processing pipeline, integrating Forest Inventory and Analysis (FIA) data to enhance forest assessment accuracy.
- Implemented robust quality control protocols for LiDAR and GEDI data, ensuring >95% data accuracy and reliability for downstream analyses.
- Developed a comprehensive methodology for identifying and mapping potential habitats for Northern Bobwhite, leveraging the combined power of LiDAR and FIA datasets.
- Conducted extensive spatial analyses to identify key habitat features, contributing valuable insights into the ecological requirements of Northern Bobwhite populations.

Athens, GA

Jun. 2022 - Present

## Geospatial Research Technologies Lab

### GRADUATE RESEARCH ASSISTANT

- Developed a comprehensive methodology for high-resolution (NAIP orthoimagery) land use land cover (LULC) mapping over large extents (15 counties), utilizing advanced remote sensing techniques and spatial modeling.
- Integrated multi-sensor data sources, including satellite imagery, aerial photography, and ground truth data, to enhance the accuracy and detail of the LULC maps.
- Employed machine learning algorithms and classification techniques to automate the mapping process, resulting in time-efficient and consistently accurate land cover classifications.
- Oversaw the daily activities of undergraduate research assistants ( four in total), providing guidance on project tasks, data collection methods, and GIS analysis techniques.
- Conducted regular training sessions to enhance the technical skills of the research team, fostering a collaborative and learning-oriented environment.
- Collaborated with fellow lab members on diverse geospatial projects, offering expertise in data analysis, interpretation, and visualization.
- Provided support in the selection and application of appropriate geospatial analysis methods, ensuring the accuracy and reliability of research outcomes.
- Conducted quality assurance checks on geospatial datasets, identifying and rectifying inconsistencies to maintain data integrity.

Lubbock, TX

Jan. 2019 - Aug. 2022

## West Virginia University

### RESEARCH ASSISTANT

- Collaborated with the project supervisor to analyze tree ring datasets, ensuring accuracy and reliability in the interpretation of research findings.
- Developed and executed a comprehensive forest inventory plan, including the establishment of sampling protocols and data collection methodologies.
- Applied advanced GIS techniques to integrate spatial data with forest inventory information, enhancing the precision of resource assessments.
- Implemented automated data logging systems using MayFly data loggers, improving efficiency in soil moisture and temperature collection.
- Conducted regular maintenance and calibration of data loggers to ensure the reliability of recorded soil variables and sap flow measurement.

Morgantown, WV

Aug. 2017 - Dec. 2018

## Geospatial Research Laboratory (GSRL)

Kingsville, TX

GIS ANALYST

Aug. 2016 - May. 2017

- Offered expertise in troubleshooting ArcGIS suite-related issues, ensuring the seamless functioning of geospatial analysis tools within the GSRL.
- Contributed to lab upgrades, including software updates and hardware enhancements, optimizing the overall efficiency of GIS operations.
- Provided training sessions for the new lab manager, ensuring a smooth transition and continuity in the laboratory's operational processes.
- Established standardized procedures for lab management, including data organization, storage, and maintenance.
- Participated in fieldwork activities, assisting in GPS data collection and subsequent differential correction processes to enhance location accuracy.
- Ensured that laboratory assignments aligned with the latest features and functionalities of the upgraded ArcGIS suite, facilitating an up-to-date educational experience for students.

## Geospatial Research Laboratory (GSRL)

Kingsville, TX

LAB MANAGER

Jan. 2014 - Jul. 2016

- Provided guidance and support to students working on GIS projects, fostering a collaborative learning environment.
- Addressed questions and challenges, ensuring students' understanding and success in completing assignments.
- Analyzed Forest Inventory and Analysis (FIA) data databases and created biomass and volume distribution by County, forest ownership class, spatiotemporal variations of biomass and volume distribution in East Texas.
- Created student's labs, produced lab grading rubrics, designed and conducted training and workshops (Intro to ArcGIS, spatial and attribute query, Model builder, and ArcGIS Online).
- Managed, manipulated, and integrated GIS, LiDAR (ArcGIS platform), KMZ, GPS, and CAD data to produce maps.
- Provided mapping support and data analysis to civil engineers, environmental engineers, wildlife biologists, and geologists.
- Provided technical support for ArcGIS suite, troubleshoot and guided around 80 undergraduate students in their projects for two years.

## Community Based Forest and Tree Management in the Himalayas (ComForM)

Pokhara, Nepal

RESEARCHER

Sep. 2013 - Jan. 2014

- Worked mostly in ArcGIS 10.x (including desktop extensions) environment
- Developed comprehensive data collection templates, ensuring uniformity and efficiency in the gathering of essential information.
- Conducted interviews with community members, employing a participatory approach to gather firsthand knowledge and perspectives.
- Responded to inquiries and phone calls, providing accurate and timely information to enhance community engagement.
- Engaged local people to prepare participatory timber marketing route maps.

## Federation of Community Forests Users' Nepal (FECOFUN)

Kathmandu, Nepal

DOCUMENTATION OFFICER

Feb. 2012 - Sep. 2013

- Designed Geodatabase, database management, research, read and understand component drawings, geo-referencing, troubleshooting, create schematic procedures and specifications, and problem-solving.
- Trained local people on data collection using GPS (eTrex 20) devices, software programs (DNR Garmin, GPS utility, ArcView, and Google Earth).
- Acquired local conflict location data and prepared maps.
- Designed research, developed data collection tools and reporting tools and templates.
- Trained 18 staffs and 20 practitioners (Modular training participants): Data collection, Data entry in MS Access and excel spreadsheet, open-ended questions, and GPS handling
- Managed relational database (MS Access) of activities, conducted by central and district chapters of the program.
- Developed and improved training contents, delivered and facilitated workshops and training.

## Association for the Development of Environment and People in Transition (adaptnepal)

Kathmandu, Nepal

GIS DATA ANALYST-LAND USE CHANGE AND FORESTRY

Jun. 2011 - Feb. 2012

- Gathered, and analyzed meteorological data and performed geostatistical analysis.
- Prepared rainfall, and temperature distribution maps of Nepal.
- Extracted elevation data and classify vegetation types based on criteria defined by Intergovernmental Panel on Climate Change (IPCC).
- Analyzed the Land use change and forestry data in preparing second national communication report to United Nations Framework Convention on Climate Change (UNFCCC).
- Biomass loss/accumulation maps by vegetation over two decades (1990-2010) with different biomass growth factors.
- Discussed, and submitted progress reports as necessary to immediate supervisor and working team.

## ComForM

Pokhara, Nepal

RESEARCH ASSISTANT

Dec. 2009 - May 2011

- Assisted in developing comprehensive data collection templates, ensuring uniformity and efficiency in gathering essential information.
- Conducted GPS boundary survey of 10 community forests, assisted in image analysis (GeoEye) and collected ground control points.
- Collected forest inventory data from permanent sample plots.
- Conducted stakeholder and focus groups meetings, fostering collaboration and obtaining valuable insights for research purposes.
- Conducted interviews with community members, employing a participatory approach to gather firsthand knowledge and perspectives.
- Executed meticulous data entry and analysis, employing statistical and spatial techniques to derive meaningful patterns and trends.

## Grants

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## Lanceleaf Foundation

NORTHERN BOBWHITE ECOLOGY IN A GRAZED LOWER COASTAL PLAIN PINE FOREST

- PI-James A. Martin, Co-PI Dwayne Elmore, and Mukti R. Subedi
- Founding Amount \$525254

South Carolina,

2024-2026

## The Urbanovsky endowment

ELO AND URBANVOSKY FELLOWSHIP

- 2021-2024
- Funding Amount: \$15000/year

Texas Tech University, Lubbock

2021-2024

## Hallie I. and Ernest B. Fish Endowed Scholarship

FISH ENDOWED SCHOLARSHIP

- Begin Fall 2021 through Spring 2022
- Funding Amount: \$3000

Texas Tech University, Lubbock

2021-2022

## James A. “Buddy” Davidson Charitable Foundation

DAVIDSON ENDOWED SCHOLARSHIP

- Funding Amount: \$2000

Texas Tech University, Lubbock

2019

## Office of campus sustainability Texas A&M University-Kingsville

STUDENT SUSTAINABILITY COMPETITION AWARD

- Awarded to Green Hands Team : Mukti R. Subedi, Rohan Jayasuriya, and Nippun Bhadsavle
- Funding amount: \$3000 USD.

Texas A&M University, Kingsville

2015

## Nepal Federation of Indigenous Nationalities (NEFIN)

FOREST CARBON STOCK ASSESSMENT OF REDD+ PILOTING AREA (KHASUR VDC)

- Co-PI a project funded by NEFIN to estimate carbon stock assessment of indigenous people managed forests.
- Funding amount: \$10,000 USD.

Kathmandu, Nepal

2012

## Community Based Forests and Trees Management in the Himalaya (ComForm)

POLITICAL ECONOMY OF RE-CENTRALIZING CF IN NEPAL

- Funding amount: \$5,500 USD.

Pokhara, Nepal

2012

## Annapurna Conservation Area Project (ACAP)

UNDERGRADUATE RESEARCH GRANT

- Competitive undergraduate Research Grant awarded to conduct research on Biomass production and distribution pattern of Cinnamomum tamala in Mijuredanda VDC
- Funding amount: \$400 USD.

Pokhara, Nepal

2009

## ComForm

RESEARCH GRANT

- Co-PI a project to assess formulation and implementation status of community forest operation plan: a case study from Tanahun and Parbat districts
- Funding amount: \$3,000 USD.

Pokhara, Nepal

2009

## District Forest Office

EXPLORATORY RESEARCH GRANT

- Co-PI a project funded to estimate diversity and distribution of Lichens and Orchids in Dhankuta district
- Funding amount: \$800 USD.

Dhankuta, Nepal

2009

## ACAP, Lwang Unit

RESOURCE ASSESSMENT GRANT

- Co-PI a project funded to execute forest resource assessment of Lwang Unit Conservation of ACAP
- Funding amount: \$3,000 USD.

Pokhara, Nepal

2008

## Satanchuli Community Forest User Group

WORKING PLAN

- A project awarded to prepare working plan of Satanchuli Community Forest User Group.
- Funding amount: \$850 USD.

Chitwan, Nepal

2008

## Service

<b>Novel Approaches in Tropical Forests Mapping and Monitoring -Time for Operationalization</b> GUEST EDITOR • Special Issue	<i>Remote Sensing, MDPI</i> 2020-2022
<b>Remote Sensing; Forestry</b> REVIEWER • Reviewed 33 manuscripts	<i>MDPI</i> 2022-Present
<b>Journal of Forestry Research</b> REVIEWER • Reviewed 7 manuscripts	<i>Springer</i> 2016-Present
<b>Forestry Chronicles, Ecosystem Services; Forest Science; Trees, Forests and People</b> REVIEWER • Reviewed 15 manuscripts	<i>Springer</i> 2020-Present
<b>Ecological Indicators</b> REVIEWER • Reviewed 2 manuscripts	<i>Elsevier</i> 2024-Present
<b>Forest Ecology and Management</b> REVIEWER • Reviewed 3 manuscripts	<i>Elsevier</i> 2025-Present
<b>Forest Science</b> REVIEWER • Reviewed 3 manuscripts	<i>Springer</i> 2023-Present
<b>Science of Remote Sensing</b> REVIEWER • Reviewed 1 manuscript	<i>Elsevier</i> 2025-Present

Certificates

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<b>TAMUK</b> CERTIFICATE IN GIS	Jun. 2016 - Present
<b>FME Software</b> FME DESKTOP 2016 BASIC	Jan. 2017 - Present
<b>UC DAVIS</b> GEOGRAPHIC INFORMATION SYSTEMS (GIS) SPECIALIZATION	Dec. 2016 - Present

Open Source Software(Package)

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SOFTWARE PACKAGES

- stdcab: Spatial Thinning, Dependency, Clustering, And Blocking of Point Data for Classification Problems** Mukti Subedi (2021) R package version 0.1.0. This package allows user to a) perform spatial thinning of training data for multiclass classification problems, b) spatial clustering of samples using hierarchical and centroid based cluster, c) spatial blocking of samples. The resultant samples are tidymodels compatible. The package also allows user to perform semi-variance analysis for continuous features. URL: <https://github.com/suvedimukti/stdcab>
- Shape2kml: Convert Polygon file(s) in a directory into DJI pilot accepted kml format** Mukti Subedi (2024) R package version 0.1.0. This package takes file or files in a directory and converts them to DJI pilot supported kml file. URL: <https://github.com/suvedimukti/shape2kml>

Current Memberships

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- Society of American Foresters (SAF)
- South Central Arc User Group (SCAUG)
- American Association of Geographers(AAG)
- Ecological Society of America (ESA)
- Mendeley-International Advisor