

**Wangdi**

**Forestry & Biodiversity Conservationist | GIS & Remote Sensing Analyst | Wildlife Researcher**

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## Professional Summary

Experienced Forestry and Biodiversity Officer with expertise in conservation project leadership, GIS & remote sensing analysis, and scientific research. Skilled in wildlife population monitoring, habitat modeling, ecosystem restoration, and community engagement. Passionate about environmental sustainability and evidence-based conservation strategies.

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## Education

**B.Sc. (Hons) Forestry, College of Natural Resources, Royal University of Bhutan**

- **Specialization:** Forest Management, Biodiversity Conservation, Environmental Protection, and Rural Development
  - **Overall Score:** 79%
  - **Honors:** SAF-Madanjeet Singh Scholarship Recipient (2017-2021)
  - **Bhutan Civil Service Examination (BCSE) 2021:** Final Score - 71.85 (Rank 6 out of 43 candidates in Forestry category)
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## Professional Experience

**Forestry Officer (Nature Conservation Section Head)**

*Divisional Forest Office, Sarpang | 2022-2024*

- Led conservation projects, including biodiversity surveys, climate vulnerability assessments, and habitat restoration initiatives.
- Developed and implemented Conservation Management Plans for Biological Corridor 03.
- Managed camera trap surveys and wildlife population assessments in key protected areas.
- Led community engagement programs for conservation awareness and environmental stewardship.
- Conducted spatial analysis using GIS and remote sensing tools to support conservation decision-making.
- Led socio-economic surveys to assess the relationship between communities and forest resources.
- Conducted climate vulnerability assessments and developed capacity-building plans to mitigate climate change impacts.
- Developed the Environmental and Social Safeguards Management Plan for the Divisional Forest Office.
- Served as Gender Mainstreaming Focal for the Divisional Forest Office.
- Authored the Socio-economic and Climate Change Vulnerability Assessment Report for Sarpang.
- Conducted forest inventories, wildlife surveys, and environmental impact assessments.

## Project Focal Roles

- **International Climate Initiative (IKI), Bhutan:** Led the implementation of Living Landscape projects in Sarpang.
- **Bhutan for Life (BFL):** Oversaw biodiversity conservation and community-based initiatives.

## Research & Conservation Initiatives

- **Camera Trap Survey Report:** Conducting survey for Elephant Corridor Mapping under the ACCESS Bhutan project.
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## Technical Skills

- **GIS & Remote Sensing:** QGIS, ArcGIS, Google Earth Engine
  - **Data Analysis & Statistics:** R, SPSS
  - **Wildlife Survey Techniques:** Camera Trapping, Radio Telemetry, Occupancy & Density Estimation
  - **Environmental Monitoring:** Climate Change Assessment, Forest Inventory, Ecosystem Restoration
  - **Programming & Automation:** Google Earth Engine (JavaScript), R Programming
  - **Scientific Writing & Research:** Report Writing, Peer-reviewed Publications, APA 7 Citation
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## Certifications & Training

- **Natural Climate Solutions Foundations Course** (NCS Foundations)
- **IUCN CPSG Collaborative Conservation Planning Completion Certificate** (September 24, 2024)
- **MOOC Ecological Monitoring Certificate of Success** (IUCN-Papaco, August 7, 2024)
- **IUCN Red List Training & Assessments:**
  - Introduction to The IUCN Red List (September 2024)
  - Red List Assessments (September 2024)
- **Drone Training Certificate:** Drones for Emergency Preparedness and Response, Department of Disaster Management & UN WFP (June 2-9, 2022)
- **EO College Course: Land in Focus - Forest Ecosystems** (August 15, 2024)
- **Planning for Conservation: Using the Conservation Standards (Step 1 & Step 2 Completion Certificates)**
- **Ecosystem Restoration Certificate** (Learning for Nature, August 13, 2024)
- **Integrated Spatial Planning Certificate** (Learning for Nature, August 5, 2024)
- **Using Spatial Data for Biodiversity Certificate** (Learning for Nature, August 6, 2024)
- **[Intermediate] Spatial Data Analysis with R, QGIS & More** (Udemy, Feb 8, 2025)
- **Google Earth Engine for Machine Learning & Change Detection** (Udemy, Feb 6, 2025)
- **QGIS & Google Earth Engine for Environmental Applications** (Udemy, Feb 6, 2025)
- **ESG & Sustainability: ESG Corporate Masterclass** (Udemy, Feb 6, 2025)
- **Applied Statistical Modeling for Data Analysis in R** (Udemy, Feb 9, 2025)
- **Applied Multivariate Analysis with R** (Udemy, Feb 9, 2025)
- **Remote Sensing in QGIS: Basics of Satellite Image Analysis** (Udemy, Feb 10, 2025)
- **Complete Google Workspace (G Suite), Beginner - Advanced** (Udemy, Feb 10, 2025)
- **Foundational In-service Training (FIT) Phase I** – Royal Institute of Management, Bhutan (2023)
- **Building Capacity to Use Earth Observation in Addressing Environmental Challenges in Bhutan** (NASA Applied Remote Sensing Training, Druk Holding & Investments, May 13-16, 2024)
- **Vulnerability Assessment of Forest to Climate Change** (ICIMOD, Kathmandu, Nepal, Nov 20-25, 2023)
- **Military Training on Weapon Handling, Drill, and Uniform Regulations** (Military Training Centre, Tencholing, Bhutan, April 2022)

- Applied Multivariate Analysis
- **Production Cost Estimation** (College of Natural Resources, Ministry of Agriculture and Forests, Bhutan, 2019)

#### **MOOC & Specialized Training:**

- MOOC Ecological Monitoring (IUCN-Papaco, Aug 7, 2024)
- Land in Focus - Forest Ecosystems (EO College, Aug 15, 2024)
- Ecosystem Restoration (UNDP, Korea Forest Service, Aug 13, 2024)
- Integrated Spatial Planning (UNDP, Aug 5, 2024)
- Using Spatial Data for Biodiversity (UNDP, Aug 2024)
- Planning for Conservation: Using the Conservation Standards (Aug 202

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## **Research & Publications**

- Analysis of Physical and Chemical Properties of Natural Salt Licks and Determination of Animal Presence (2022)
- Diversity of Aquatic Beetles (Dytiscidae) Along the Altitudinal Gradient and its Relationship with Physico-Chemical Parameters of Water (2022)
- Community-Based Climate Change Vulnerability and Capacity Assessment of the Gewogs Under DFO, Sarpang (2024)
- Livelihoods in Focus: Unveiling the Socio-Economic Dynamics of Sarpang Dzongkhag (2024)
- Divisional Forest Office, Management Plan, Sarpang (2024)
- Conservation Management Plan for Biological Corridor 03 (2023)
- Biodiversity Status of Sarpang (2023)
- Scientific Thinning Action Plan - Sarpang (2023)

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## **Professional Engagements & Leadership**

- **Workshop on Camera Trap Data Analysis:** Participant, Gelephu, Bhutan (May 29 - June 3, 2023)
- **Ecotourism Study Visit:** Participant, Royal Forest Department, Thailand (Nov-Dec 2024)

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## **Professional References**

- **Dr. Bhagat Suberi**  
Lecturer & Research Mentor, College of Natural Resources, Bhutan  
Email: [bsuberi.cnr@rub.edu.bt](mailto:bsuberi.cnr@rub.edu.bt)/bsubberi@gmail.com/ Phone: +975-17554382,
- **Mr. Ugyen Dorji**  
Lecturer & Research Mentor, College of Natural Resources, Bhutan  
Email: [ugyen.cnr@rub.edu.bt](mailto:ugyen.cnr@rub.edu.bt)/Phone No. +(975)-17943865
- **Mr. Phub Dhendup**  
Chief Forestry Officer, Divisional Forest Office, Sarpang  
Email: [pdhendup@moenr.gov.bt](mailto:pdhendup@moenr.gov.bt) | Phone: +975 17936520

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## **Contact Details**

- **Email:** [wangdiues@gmail.com](mailto:wangdiues@gmail.com) | [wangdi@moenr.gov.bt](mailto:wangdi@moenr.gov.bt)
  - **Phone:** +975 17506599
  - **LinkedIn:** [Wangdi Wangdi](#)
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