

# CHUNGDU TSHERING

## FORESTRY OFFICER

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UGYEN WANGCHUCK INSTITUTE FOR FORESTRY RESEARCH AND TRAINING  
DEPARTMENT OF FOREST AND PARK SERVICES,  
BHUTAN

### EDUCATION

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Bachelors of Science in Forestry

College of Natural Resources, Royal University of Bhutan

2016 - 2020

### RESEARCH INTEREST / RESEARCH PROFILE

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My research interests revolve around dendrochronology and its implications for understanding climate change impacts on forest ecosystems. I'm passionate about using tree ring analysis to unravel past climatic patterns and predict future trends. Investigating how Bhutan's forests respond to changing environmental conditions drives my commitment to advancing sustainable forest management practices.

LinkedIn Profile: [www.linkedin.com/in/chungdu-tshering-313127178](https://www.linkedin.com/in/chungdu-tshering-313127178)

ResearchGate Profile: <https://www.researchgate.net/profile/Chungdu-Tshering>

### RESEARCH EXPERIENCE

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2021-2023

#### Tree-Ring Analysis for National Forestry Inventory

Tree-ring sanding, image capturing, measurement and ring-width index analysis. 4001 samples measured analyzed and reported in the Bhutan state of Forest Report 2023.

2021 – Present

#### Tree-Ring Laboratory (Dendro Lab) In-charge

Ugyen Wangchuck Institute for Forestry Research and Training

### TEACHING EXPERIENCE

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July 2021 - Present

#### Certificate Course in Forestry and Environment Sciences

Ugyen Wangchuck Institute for Forestry Research and Training

Taught forestry certificate course trainees in the modules of forest inventory, GIS, forestry tools and equipment.

### PUBLICATION/PRESENTATIONS

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#### International Peer Reviewed Articles

**Tshering, C., Thomte, L., Dukpa, D., & Shah, S. K. (2024).** Increasing growth sensitivity of *Pinus wallichiana* to summer season maximum temperature – Evidence from central Bhutan Himalaya. *Dendrobiology*. DOI: <https://doi.org/10.12657/denbio.091.010>

**Tshering, C.,** Tenzin, K., & Nguyen, T. V. (June 2023). A review of the current state and future prospects of dendrochronological research in Bhutan. *Tree-Ring Research*, 79(2), 1-9.

<https://doi.org/10.3959/2022-6>

**Tshering, C.,** & Tshering, W. (2023). Floristic composition and species diversity of wintering herbs in Blue Pine forest of Thimphu District, Bhutan. *Asian Plant Research Journal*, 11(3), 1-12. <https://doi.org/10.9734/APRJ/2023/v11i3210>

**Tshering, C.,** & Wangmo, T. (2023). Evaluating Habitat Distributions and Conservation Challenges of Himalayan Newt (*Tylototrinus verrucosus* Anderson, 1871) in Thinleygang, Punakha District, Bhutan. *Asian Journal of Research in Agriculture and Forestry*, 9(4), 171-179. <https://doi.org/Article no.AJRAF.106454>

## **Technical Reports**

Chungdu, T., Dukpa, D., & Tenzin, K. (August 2022). Technical report on estimation of *Cupressus corneyana* (Tshendhen shing) age at Pangri Zampa using tree-ring analysis. DOI: 10.13140/RG.2.2.25418.64961 (**Principal Investigator**)

Ugyen Wangchuck Institute for Conservation and Environment. (July 2023). Three decades of community forestry in Bhutan: An assessment report of the review of its extent and management effectiveness (ETHNOBOTANY SERIES: A REVIEW OF COMMUNITY FORESTRY PROGRAM IN BHUTAN). DOI: 10.13140/RG.2.2.13133.20968 (**Contributor**)

UWIFoRT (2024). From Soil to Fragrance: Empowering Bhutanese Farmers Through Agarwood Production. A Comprehensive Business Plan. Department of Forests and Park Services. Bumthang, Bhutan. (**Principal Investigator**)

UWIFoRT (2024). Bamboos and Canes Value Chain Analysis for AFoCO Project Sites in Bhutan. Department of Forest and Park Services. Ministry of Energy and Natural Resources. (**Principal Investigator**)

DoFPS (2024)/ Elevating Marginal Farmers: sustainable bamboo and Cane Products Venture in Broksar and Mangling, Mongar. A Farmer Producer Group. *Business Plan*. Department of Forest and Park Services. Ministry of Energy and Natural Resources. (**Contributor**).

## **CERTIFICATIONS**

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1. Certified in Unmanned Aerial Vehicle Operations (drone)
2. Certified in Conservation Law and Enforcement
3. Certified NASA GLOBE Educator (UCAR, NASA and US DEPT of STATE)
4. Certified NASA GLOBE Mentor Trainer (UCAR, NASA and US DEPT of STATE)
5. Certified Trainer for Value Chain and Market Analysis
6. Certified Trainer for Business Plan Development and Market Strategy (forest-based enterprises)

## **PROFESSIONAL MEMBERSHIPS**

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|---|--------------|
| a. Country Chapter: Association for Tropical Biodiversity Conservation: | 2023-Present |
| b. Member at International Tree-Ring Society                            | 2022-Present |
| c. GLOBE NASA Educator for Biosphere Protocols                          | 2022-Present |
| d. GLOBE NASA Deputy Country Coordinator                                | 2021-Present |

## **REFERENCES**

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Available upon request