

CURRICULUM VITAE

A PERSONAL BIODATA

Dhan Bdr Gurung (PhD)

Professor

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Qualification

2004-08	PhD, ETH, Zurich, Switzerland
1996-97	MSc (Resource Management), The University of Edinburgh, UK
1989-91	AIGNFA (AIFS), Dehra Dun, India (Forestry)
1984-88	BSc, Sherubtse College (Affiliated to University of Delhi, India), Bhutan

Current Responsibilities

- Professor, Department of Forest Science, College of Natural Resources, Lobesa
- Teaching in various programmes such as Statistics, Research Methodology, and Freshwater Ecology in Master and Undergraduate programmes

B PUBLICATIONS

1. Research Articles on Journals

- Gyeltshen, P., **Gurung**, D.B., and Kumar, P. (2020). *Bulbophyllum trongsaense* (Orchidaceae: Epidendroideae: Dendrobieae), a new species from Bhutan, *Phytotaxa* 436 (1), 085–091.
- Rai, R., Sharma, S., **Gurung**, D.B., Sitaula, B.K. and Shah, R.D.T. (2020). Assessing the impacts of vehicle wash wastewater on surface water quality through physico-chemical and benthic macroinvertebrates analyses, *Water Science*, 1-11.
- Tshering, S., **Gurung**, D.B., Sherub, K., Dookia, S., Dorji, K. and Choephyel, P. (2020). Bat (Mammalia: Chiroptera) diversity, dominance, and richness in the southwestern region of Bhutan with three new records for the country. *Journal of Threatened Taxa*, 12(1): 15114–15128.
- **Gurung**, D.B., Gyeltshen, N., Tobgay, K., Dalström, S., Wangdi, J., Ghalley, B.B., Chaida, L., Phuntsho, Gyeltshen, N., Dawa, K., Wangchuk, T., Pradhan, R., Hoijer, T., and Gyeltshen, C. (2019). Distribution and habitats of *Paphiopedilum* Pfitzer

(Orchidaceae) known to occur in Bhutan. *Journal of Threatened Taxa*, 11(9): 14101–14111.

- Zangmo, P., **Gurung**, D.B., Letro, L., and Wangmo, S. (2018). Distribution, Abundance and Occupancy of Gaur (*Bos gaurus* Smith) in the Royal Manas National Park, Bhutan. *BJNRD*, 5(1), 1-12.
- Thoni, R.J., and **Gurung**, D.B. (2018). Morphological and molecular study of the torrent catfishes (Sisoridae: Glyptosterninae) of Bhutan including the description of five new species. *Zootaxa*, 4476 (1): 040–068.
- Rai, R., Sharma, S., **Gurung**, D.B., Sitaula, B.K. (2018). Heavy metal contamination in sediments from vehicle washing: a case study of Olarong Chhu Stream and Paa Chhu River, Bhutan. *International Journal of Environmental Studies*, 1-19.
- Suberi, B., Tiwari, K.R., **Gurung**, D.B. Bajracharya, R.M., and Sitaula, B.K. (2018). Effect of Harvesting and Non-Harvested Forest Management on Carbon Stocks, *International Journal of Environment and Climate Change*, 8(3): 152-164,
- Rai, R., Sharma, S., **Gurung**, D.B., Sitaula, B.K., and Raut, N. (2018). Assessment of environmental impacts of vehicle wash centres at Olakha, Thimphu Bhutan. *International Research Journal of Environmental Sciences*, 7(1), 1-10.
- Suberi, B., Tiwari, K.R., **Gurung**, D.B. Bajracharya, R.M., and Sitaula, B.K. (2018). People’s perception of climate change impacts and their adaptation practices in Khotokha valley, Wangdue, Bhutan. *Indian journal of traditional knowledge*, 17(1):97-105.
- Speer, J.H., Bräuning, A., Zhang, Q.B., Pourtahmasi, K., Gaire, N.P., Dawadi, B., **Gurung**, D.B., ... (2017). *Pinus roxburghii* stand dynamics at a heavily impacted site in Nepal: Research through an educational fieldweek, *Dendrochronologia*, 41, 2-9
- Dorji, T., and **Gurung**, D.B. (2017). Grassland Communities, Graminoid Composition, and their Diversity Pattern on the Eastern Mountain Slope of Dochula, Bhutan, *BJNRD*, 4(2): 10-28.
- Suberi, B., Tiwari, K.R., **Gurung**, D.B., and Sitaula, B.K. (2017). Forest Resource Management in the Context of Climate Change Adaptation and Mitigation in Bhutan, *BJNRD*, 3(2):1-11.
- Rai, R., Sharma, S., **Gurung**, D.B., and Sitaula, B.K. (2016). Potential impacts of discharging vehicle wash wastewater in rivers: a case study of Thimphu and Paro, Bhutan – a review. *Bhutan Journal of Research and Development*, 5(2), 36-53.
- Thoni, R., **Gurung** D.B. and Mayden, R. (2016). A review of the genus *Garra* Hamilton 1822 of Bhutan, including the descriptions of two new species and three additional records (Cypriniformes: Cyprinidae). *Zootaxa*, 4169 (1): 115-132.
- Koirala, B.K., **Gurung**, D.B., and Lhendup, P. (2016). Species diversity and spatial distribution of snakes in Jigme Dorji National Park and adjoining areas, western Bhutan, *Journal of Threatened Taxa*, 8(12).
- **Gurung**, D.B., Dalstrom, S., Höijer, T., Gyeltshen, N., Gyeltshen, N., Wangdi, D., 2016. Orchid Explorers on the Trail of Gaurs and Elephants. *Orchid*. AOS, 2016.
- Wangchuk and **Gurung**, D.B. (2016). Effect of Different Grazing Regimes on the Growth of *Quercus semecarpifolia* Sm. Regeneration in Western Bhutan Himalaya (Thimphu). *BJNRD*, 3(1): pp.32-38.
- Dalström, S., **Gurung**, D.B., Gyeltshen, C., and Gyeltshen, N. (2015). Orchids of Bhutan, The Genus *Phaius*. *Orchids*. AOS, pp.484-491.

- Dalstrom, S., **Gurung**, D.B., Gyeltshen, C., & Gyeltshen, N. (2015). Orchids of Bhutan: The Genus *Vanda*. *Orchids*, AOS, pp.34-39.
- Kaka, **Gurung**, D.B., Khandu, Y., Katel, O., Chhetri, P.B., & Wangda, P. (2014). Population Structure of *Cupressus tortulosa* Griffith along the Altitudinal Gradients of Tsendenanag Ridge in Punakha, Bhutan. *Bhutan Journal of Natural Resources and Development*, pp-24-31.
- Thoni, R. & **Gurung**, D.B. (2014). *Parachiloganis bhutanensis*, a new species of torrent catfish (Siluriformes: Sisuridae) from Bhutan. *Zootaxa*, 3869 (3): 306-312.
- Dalstrom, S. & **Gurung**, D.B. (2013). Orchids of Bhutan III: The Genus *Epigonium* in Bhutan. *Orchids*, AOS, pp.735-739.
- **Gurung**, D.B., Dorji, S., Wangyal, J.T. & Tshering, U. (2013). An Annotated Checklist of Fishes of Bhutan. *Journal of Threatened Taxa*, 5 (12), pp.4880-4886.
- Wangyal, J.T. & **Gurung** D.B. (2012). The Distribution of Himalayan Newts, *Tylototriton verrucosus* in Punakha-Wangdue Valley, Bhutan. *Journal of Threatened Taxa*, 4(13), pp.3218-3222.
- Wangyal, J.T. & **Gurung**, D.B. (2012). Amphibians of Punakha-Wangdue Valley, Bhutan. *Frog leg*, ANSA, 18.
- Mukhia, P.K., Wangyal, J.T. & Gurung, D.B. (2011). Floristic composition and species diversity of the chirpine forest ecosystem, Lobesa, Western Bhutan. *Forestry nepal*.
- **Gurung**, D.B. & Seeland, K. (2009). Ecotourism benefits and livelihood improvement for sustainable development in the nature conservation areas of Bhutan. *Sustainable Development*. DOI: 10.1002/sd.443
- **Gurung**, D.B. & Scholz, R. (2008). Community-based ecotourism in Bhutan: expert evaluation of stakeholder-based scenarios. *Journal of Sustainable Development and World Ecology*, Vol. 15, pp.397-411.
- **Gurung**, D.B. & Seeland, K. (2008). Ecotourism in Bhutan: Extending its Benefits to Rural Communities. *Annals of Tourism Research*, Vol. 35, pp.489-508.
- Noltie, H. & **Gurung**, D.B. (2002). Three Monocotyledons New to the Flora of Bhutan. *The Plantsman*, UK. 1, 228-235.

2. Books, Book Chapters & Thesis

- Dorji, U. and Gurung, D.B. (2017). Aquatic biodiversity of Bhutan. In D.B. Gurung and Om Katel (Eds.) in *An Introduction to the Biodiversity of Bhutan in the context of climate change and economic development*. CRDS publication, Lobesa Bhutan.
- Gurung, D.B. and Katel, O. (2017). Development activities and biodiversity. In D.B. Gurung and Om Katel (Eds.) in *An Introduction to the Biodiversity of Bhutan in the context of climate change and economic development*. CRDS publication, Lobesa Bhutan.
- Dorji, C. and Gurung, D.B. (2017). Terrestrial Biodiversity in the Context of Climate Change. In D.B. Gurung and Om Katel (Eds.) in *An Introduction to the Biodiversity of Bhutan in the context of climate change and economic development*. CRDS publication, Lobesa Bhutan.

- Wangyal, J. T., and Gurung, D.B. (2017). The current status of Herpetofauna in Bhutan. In D.B. Gurung and Om Katel (Eds.) in *An Introduction to the Biodiversity of Bhutan in the context of climate change and economic development*. CRDS publication, Lobesa Bhutan.
- Gurung, D.B. & Thoni, R.T. (2015). Fishes of Bhutan: A preliminary checklist. CRDS Publication, Bhutan.
- Gurung, D.B. (2008). *Benefits of Ecotourism to the Local Rural Communities Living Inside the Protected Areas of Bhutan*, DISS. ETH No. 17633, Zurich, Switzerland.
- Gurung, D.B. (2006). *A Field Guide to the Orchids of Bhutan*. DSB Publication, Printed in Kolkata (Calcutta), India.

3. Conferences and Seminar Proceedings

- Katel, O., Khandu, Y., and Gurung, D.B. (2016). Farmers Vulnerability to Climate Variability in Punakha Wangdue Valley, Bhutan. *Poster*.
- Khandu, Y., Katel, O. and Gurung D.B. (2015). Influence of temperature variability on tree rings of *Abies densa* in Bhutan Himalaya. *The 4th International Asian Dendrochronological Conference*. Kathmandu, Nepal. (Abstract of conference only.)
- Gurung, D.B. (2014). Rethinking socio-economic development from the perspective of climate change and ecological vulnerabilities. *The Third Creative University Conference – Creative economy, creative university and creative development*. Thimphu, Bhutan. (Abstract only).
- Gurung, D.B. & Wangdi, S. (2010). Prospects of Rural Tourism in Lower Zhemgang, Bhutan. In *Proceedings of the Seminar on Sustainable Rural Development*. College of Natural Resources, Lobesa.
- Gurung, D.B. (2002). Distribution of Orchid species in the Punakha-Wangdue Valley. In *Project Document No. 69, Seminar Proceedings*. BG-SRDP, Bhutan.
- Gurung, D.B., Mieke, G & S., Namgyel, P. & Wolf, R. (2002). The Tsenden (*Cupressus corneyana* Carr.). As a Natural Constituent of Bhutanese Broadleaved Forests? In *Project Document No. 69, Seminar Proceedings*. BG-SRDP, Bhutan.

C CONSULTANTY SERVICES & EXPERIENCES

4. Consultancy services offered

- 2019 Assessment of water quality and fish diversity in the Dorjilung DGPC project area. DGPC, Thimphu.
- 2017 Ex-post assessment for Gamri Watershed Landscape Management Strategy. Community Development and Knowledge Management for the Satoyama Initiatives, COMDECKS BHUTAN, GEF-SPG/COMDECKS, UNDP, Bhutan.
- 2016 Assessment of aquatic biodiversity assessment of Chamkharchhu – fishes and macroinvertebrates – sub-contract to DGPC.
- 2016 Assessment of aquatic biodiversity of Nyera-amarichhu, DGPC with local consultancy firm KHENRIG.

- 2013 Nikachhu aquatic biodiversity assessment – fishes, macroinvertebrates, and zooplankton – sub-contract to BUCHORE.
- 2003 Orchid Inventory, a consultancy on behalf of the Global Environment Facility of the UNDP, at Trongsa in Central Bhutan.
- 2000 Local Botanist in assessing Biodiversity in Cypress Forest, 1999-2001 for Prof. George Miehe of Marburg University and Dr. Sabine Miehe from Germany, GTZ.
- 1999 Impact Assessment consultancy for the Bhutan-German Sustainable RNR-Development Project (BG-SRDP) in Punakha and Wangdue valley with Dr. Jamba Gyeltshen.

5. Trainings, Workshops and Seminars

- 2019 Capacity Building Workshop on Glaciology and Disaster Risk Reduction. RUB/CNR and University of Fribourg (UniFR), Switzerland. Funded by SDC. Thimphu BHUTAN.
- 2017 Capacity Building on Freshwater Biotaxa Taxonomy – Fishes, Amphibians, and Decapods. In Collaboration with IUCN, FFSG, WWF, and CNR, CNR, at Lobesa, BHUTAN.
- 2015 Capacity Development in Short Course Design. Funded by NUFFIC – The Netherlands, in collaboration with CNR, at Lobesa, BHUTAN.
- 2010 Wildlife Research Techniques in Rugged Mountainous Asian Landscapes. UWICE in collaboration with University of Montana. Jakar, BHUTAN.
- 2009 Field Techniques for Research and Conservation of Volant and Non-volant Small Mammals. Organized by Bat Conservation International, CCINSA, RISCINSA, CHESTER, MOA and Zoo Wild at CNR, BHUTAN.
- 2009 Supervisors Training Program (on Supervision of PhD Students). Queensland University of Technology, AUSTRALIA.
- 2009 Teaching-learning & Curriculum. Leiden, The NETHERLANDS.
- 2002 Regional Orchid Specialist Group Conference of Indian Sub-Continent (OSG & SSC of IUCN), Lobesa, BHUTAN.
- 2000 Application of GIS & RS in Planning for Mountain Agriculture & Land Use Management, ICIMOD, Katmandu, NEPAL.
- 1999 Learner Centred Teaching Methods & Extension (conducted by HELVETAS), Dhaka, BANGLADESH.
- 1999 Silviculture & Management of Broadleaved Forest in the Himalayas, organized by IUFRO at Lobesa, BHUTAN.
- 1998 Participatory Watershed Management Curricula, conducted by FAO, PAKISTAN.
- 1993 Teaching Methodology, KODIS (ILO, Turin) and NRTI, Lobesa, BHUTAN.
- 1992 Enhancing Local Initiatives (Participatory Tools for Social Forestry), The NETHERLANDS.

6. Projects and other Work Experience,

- 2019 Professor, Department of Forest Science till date.
- 2017 Dean of Research and Industrial Linkages of CNR since Sept., 2015 until November 2018.

- 2015 Dean of Academic Affairs, June 2012 – Sept., 2015.
- 2014 Chief Editor, Bhutan Journal of Natural Resources and Development, Online and Print version available, www.bjnrd.org.
- 2014 Coordinator for NORHED – Bhutan - institutional capacity building project between Norway, Nepal, Pakistan and Bhutan, till date.
- 2012 Project Team Leader of DANIDA-RUB - institutional capacity building research project, 2012 to 2015.
- 2004 Faculty Head / Teaching in the College of Natural Resources in the fields of: Forest Ecology, Freshwater Ecology, Taxonomy, Statistics, Forest Roads, and Wildlife Science.
- 2002 Faculty Head/Lecturer, until 2004, in the Faculty of Forestry at CNR.
- 1991 Lecturer at NRTI, now CNR.
- 1991 Asst. Director of Forest.
- 1989 Trainee Officer in Forest Department. Territorial Division, Thimphu.

4 RESEARCH INTERESTS

- Flora of Bhutan, **Orchids** in particular
- Aquatic ecology - **Fishes** and **macroinvertebrates** including water quality
- Survey on **Herpetofauna** of Bhutan

5 OTHER CONTRIBUTION

BJNRD: Initiated an open access, peer reviewed journal called Bhutan Journal of Natural Resources and Development (BJNRD) in print and online forms as a Chief Editor in autumn 2014 to commemorate the 60th Birth Anniversary of His Majesty the Fourth Druk Gyalpo, Jigme Singye Wangchuck. The journal is being published online and/or print. It is available online at www.bjnrd.org.

Memberships and Academic contributions:

- a) Currently, a member of a **Freshwater Fish Specialist Group, IUCN**.
- b) **Chief Editor** of BJNRD Journal.
- c) **Editor** of BJRD RUB Journal.
- d) **Editor** to BES.
- e) Contributes to **Bhutan Biodiversity Portal** as a founding member.
- f) Advisory member of the **iGNHaS** centre of RUB, OVC, Thimphu.
- g) Served as an **Editor** in RNR journal.
- h) Contributed to development of **Zhibtshol**, RUB Research Policy document, 2014.

Award and Grants:

- a) Recipient of ‘Annual Balipara Foundation Award, India, 2017
- b) Recipient of Jigme Singye Wangchuck Outstanding Environmental Stewardship Award, 2015.
- c) Received Meritorious Service Award in teaching in 2014.

- d) NORHED Project Coordinator for Bhutan (Bhutan, Nepal, Pakistan and Norway, 2014-2020.
- e) DANIDA capacity building grants for RUB colleges/CNR in 2012.
- f) A grantee of Rufford Small Grant Foundation in 2011.