

**Deki Choden**  
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**a. Professional Preparation**

University of Gothenburg	School of Global Studies	PhD Environmental Social Science, 2022
Mahidol University	Environmental Remediation	M.Sc. Environmental Biology, 2017
Paro College of Education	B. Ed Secondary	B.Sc. Biochemistry, 2010

**b. Appointments**

2020- Centre Coordinator of Centre for Climate Change and Spatial Information, Sherubtse College, Royal University of Bhutan  
2019- Lecturer, Environmental Science, Sherubtse College, Royal University of Bhutan  
2018- Teacher, Environmental Science, Wangbama Central School, Thimphu Bhutan  
2016- General Secretary, Bhutan Students Association of Thailand.  
2011-2015 Teacher, Shengana Lower Secondary School, Punakha Bhutan  
2010- Khorlo Collaborative Group Councillor, Paro College of education, Royal University of Bhutan

**c. Publications**

1. Choden, D., Pokethitiyook, P., Poolpak, T., & Kruatrachue, M. (2020). Phytoremediation of soil co-contaminated with zinc and crude oil using *Ocimum gratissimum* (L.) in association with *Pseudomonas putida* MU02. International Journal of Phytoremediation.
2. Choden, D (2017). Bioremediation of crude oil contaminated soil using *Ocimum gratissimum* (L.) in association with *Pseudomonas putida* MU02. Proceedings of the Conference on Environmental Health: The Road to Thailand 4.0, Thailand.
3. Chetri, B & Choden, D (2021). Progress in pesticide bioremediation from South Asian countries: Challenges and way forward. Springer Nature.
4. Pokhrel, B & Choden, D (2021). Antifungal efficacy of *Hyptis suaveolens* and *Rumex nepalensis* extracts against *Alternaria solani*: An approach for bio-pesticides. Biocatalysts and Agricultural Biotechnology.
5. Choden, D & Wangzin Dendup (2022). Value addition to industrial food processing waste (Accepted and approved by the Editor, Elsevier)
6. Singh, R., Kuddus, M., Singh, P.K., & Choden, D (2022). Nanotechnology for Nano-pathogens: From detection to the management of plant viruses. BioMed research International.

**d. Synergistic Activities**

1. Project developer and principle researcher for the project “Research into natural hazards and resilience to natural hazards and climate change impacts on the cryosphere in Paa Chhu, Paro Bhutan” organized by HUC Secretariat (ICIMOD) in collaboration with University of Bristol (UK) (to be completed in March, 2022).
2. Principle researcher for the project “Management practices and environmental awareness on electronic waste in Trashigang Dzongkhag”, funded by the Annual College Research Grant, 2021-2022, Sherubtse College, Royal University of Bhutan.
3. Organizer for various climate events on “Climate Action Week, 2021” at Sherubtse College, Royal University of Bhutan.
4. Host and organizer of 2021 of workshop titled “Spatial data analysis using remote sensing and GIS techniques” at Sherubtse College, Royal University of Bhutan.
5. Panel member for the review of M.Sc. in Natural Resource Management, College of Natural resources, Royal University of Bhutan, 2021.

6. Project developer and principle researcher for the project “Cryosphere and Society’ organized by HUC Secretariat (ICIMOD) in collaboration with University of Bristol (UK), 2021.
7. Host and organizer of 2021 of workshop Titled “Climate conversation- from climate change impact to societal adaptation” at Sherubste College, Royal University of Bhutan.
8. Nuffic OKP Scholarship recipient for the international online course “Market Access for Food and Nutrition Security’ held by Wageningen Centre for Development Innovation (WCIDI), 2020.
9. 2020- Received ‘Young Scientist Award’ of the Society for Bioinformatics and Biological Sciences in recognition for scientific contribution in the field of Environmental Biotechnology.
10. Participated in stakeholder consultation workshop for National Adaptation Plan Formulation process in Bhutan, 2019.

#### **e. Collaborators & Other Affiliations**

##### **(i) Collaborators**

1. Adrian Flint, School of Sociology, Politics and International Studies, University of Bristol.
2. Bimal Kumar Chetri, Department of Environment and Life Science, Sherubtse college, Royal University of Bhutan.
3. Chogyel Wangmo, Department of Environment and Climate Studies, College of Natural resources, Royal University of Bhutan.
4. Guy Howard, Global Challenges Research Chair in Environmental and Infrastructure Resilience, Associate Director (International) Cabot Institute, Department of Civil Engineering, University of Bristol, UK.
5. Jas Raj Subba, Department of Physical Science, Sherubtse College, Royal University of Bhutan.
6. Jeremy Phillips, School of Earth Sciences, Volcanology and Natural Hazards, University of Bristol.
7. Maleeya Kruatrahue, Department of Biology, Faculty of Science, Mahidol University, Bangkok, Thailand
8. Prayad Pokethitiyook, Department of Biology, Faculty of Science, Mahidol University, Bangkok, Thailand.
9. Sonam Lhamo, Cryosphere Services Division, National Center for Hydrology & Meteorology, Bhutan.
10. Toemthip Poolpak, Department of Biology, Faculty of Science, Mahidol University, Bangkok, Thailand

##### **(ii) Graduate and Postdoctoral Advisors**

Prayad Pokethitiyook, Maleeya Kruatrahue, Toemthip Poolpak, Department of Biology, Faculty of Science, Mahidol University, Bangkok, Thailand

##### **(iii) Thesis Advisor and Postgraduate Sponsor**

Supervised dissertation titled, “Antifungal efficacy of *Hyptis suaveolens* and *Rumex nepalensis* extracts against *Alternaria solani* (an early blight causing fungus): An approach for bio-pesticides,” submitted to Department of Environment and Life Sciences, Sherubtse College, Royal University of Bhutan by Mr. Bhagat Pokhrel of B.Sc. Honours in Environmental Science for the fulfillment of his Honours Degree.

#### **f. Research Impacts**

The research on “Antifungal efficacy of *Hyptis suaveolens* and *Rumex nepalensis* extracts against *Alternaria solani* (an early blight causing fungus): An approach for bio-pesticides, will help reduce the use of synthetic fertilizers and enhance the application of bio-fertilizers for controlling early blight in potato crop, and invasive species in agricultural land.

The preliminary findings from the research project on ‘Cryosphere and Society’ is expected to provide fundamental support in building resilience of vulnerable communities against cryosphere hazards in central Bhutan.

With a major focus on people at the grassroots level the project on ‘Management practices and environmental awareness on electronic waste in Trashigang Dzongkhag’ aspires to evaluate the relationship between socio - economic variables with consumption and disposal behavior in order to address the impacts of e-waste on the environment and local people.

The findings from the thesis on ‘Phytoremediation of soil co-contaminated with zinc and crude oil using *Ocimum gratissimum* (L.) in association with *Pseudomonas putida* MU02’ aims to provide an environmental friendly technique to remediate soils contaminated with heavy metal and organic pollutants using plant and bacteria.

#### **g. Workshop, Training and Conferences**

2022- Completed the 120 hours training on ‘**Qualitative Research Methodology**’ organized by higher education institutions in Europe and Bhutan co-funded by the Erasmus+ Programme of European Union.

2021- Participated in the international webinar on ‘**Recent Insights on Disaster Awareness and Disaster Risk Management**’ organized by Department of Civil Engineering, Assam Don Bosco University, Azara Campus, Guwahati

2021- Completed the online training on ‘**Empowering women on geospatial information technology-Bhutan 2021 edition**’ jointly organized by ICIMOD and Cold World Consulting within the framework of the SERVIR -HKH Initiative.

2021- Participated in the international webinar on ‘**Wastewater and Emerging Pollutants: Unfolding a Toxic Story**’ organized by UNEP.

2021- Completed the training on ‘**Prevention of Sexual Harassment at Work Place**’ organized by Institute of Management Studies Limited, Bhutan.

2020- Participated in international webinar on ‘**Education and Learning in Pandemic Times**’ organized by Central & South Asia Regional Partner, Jawaharlal Nehru Centre for Advance Scientific Research, Bangalore, India.

2020- Participated in International webinar on ‘**Soil Spectroscopy: An Emerging Technique for Rapid Soil Health Assessment**’ jointly organized by ICAR-Indian Institute of Soil Science, Bhopal & World Agroforestry (ICRAF), Nairobi.

2019- Completed the ‘**Young Professionals Leadership Program (YPLP 8)**’ held at the Royal Institute for Governance and Strategic Studies, 2019.

2019- Completed training on ‘**Introduction to University Learning and Teaching**’ organized by Centre for University Learning and Teaching (CULT), Royal University of Bhutan.

2019- Participated in workshop on ‘**ICT enabled Innovative Teaching and Learning**’ organized by Centre for Climate Change and Spatial Information, Sherubtse College, Royal University of Bhutan.

2019- Participated in workshop on ‘**Data Analysis using SPSS**’ organized by Centre for Climate Change and Spatial Information, Sherubtse College, Royal University of Bhutan.

2019- Completed training on required standards for the completion of the ‘**High Impact Presentations**’ as set forth by *Dale Carnegie & Associates Inc.*

2018- Completed workshop on ‘**Democracy and Media Literacy Workshop**’ organized by Bhutan Centre for Media and Democracy, Thimphu Bhutan.

2016- Completed soft skill course entitled ‘**Effective Presentation Technique in Academic Meeting**’ organized by Faculty of Graduate Studies, Mahidol University, Thailand.

2015- Attended the required classes on ‘**Ethics in Human Research (Generic Skills in Science Research)**’ organized by Faculty of Science, Mahidol University, Thailand.

2015- Attended the ‘**Training Course on Biosafety**’ organized by Faculty of Science, Mahidol University, Thailand.

2015- Attended the ‘**Training Course on Chemical Safety**’ organized by Faculty of Science, Mahidol University, Thailand.