

## Curriculum Vitae

Name: Deki Wangmo, 10606001788  
Birth: 20 August 1972, Bhutan  
Civil status: Married, five children  
Languages: Fluent in English and Dzongkha. Basic skills in Hindi and Nepali and many local dialects  
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### KEY AREAS OF INTEREST

Geographic Information Science and Earth Observation, Remote Sensing, Global Positioning Systems, Surveying, Photogrammetry, Aerial Photography, Land Use Planning, Watershed Management, Hydro Meteorology Monitoring, Sustainable Land Management, Soil Management, Disaster Management, Environmental Management, Wildlife Conservation, Waste Management, Global Warming and Climate Change etc.

### EDUCATION

Bachelor of Science in Environmental Management, Royal Thimphu College, Thimphu, Bhutan

Diploma in Geo-information Science and Earth Observation, International Institute for Geo-information Science and Earth Observation (ITC), The Netherlands

Computer Operation and Programming, Indian Institute of Computer Studies, Gaya, Bihar, India

Bhutan Higher Secondary Education Certificate (BHSEC), Bhutan Council for School Examinations and Assessment, Kelki Higher Secondary School, Thimphu, Bhutan

Language & Culture Studies Certificate Examination (LCSCCE) with English, Bhutan Board of Examinations, Dzongkha Language Institute, Changangkha, Thimphu, Bhutan  
Bhutan Lower Secondary School (BLSC), Damphu Junior High School, Tsirang, Bhutan

## EMPLOYMENT

Work Experience	
Employer:	Royal Thimphu College
Year:	2021 – till date
Location:	Ngabiphu, Thimphu, Bhutan.
Position:	GI Sciences Lecturer
Responsibilities:	<ul style="list-style-type: none"> <li>➤ Teach both theory and practical aspects of Geographic Information Sciences</li> <li>➤ Supervise and train environmental students in field work and survey</li> <li>➤ Train students in application of GIS, RS and GPS technology</li> <li>➤ Supervise students in individual research projects for environmental management</li> <li>➤ Conduct continuous assessment and semester end exam with regard to GI Sciences</li> </ul>
Employer:	Self-employed
Year:	2017 – 2020
Location:	Motithang, Thimphu, Bhutan
Position:	GIS Consultant
Organization:	CARLEP/IFAD (2020)
Responsibilities:	<ul style="list-style-type: none"> <li>➤ Identify fallow lands in 6 eastern dzongkhags of Bhutan</li> <li>➤ Carry out GPS survey of fallow lands</li> <li>➤ Carry out GIS mapping and land suitability mapping for agriculture and livestock rearing</li> </ul>
Organization:	WWF Bhutan Program (2019)
Responsibilities:	<ul style="list-style-type: none"> <li>➤ Train WWF staff in GIS operation, database management and map production</li> <li>➤ Carry out mapping for NIKI project of WWF</li> <li>➤ Carry out mapping of national river systems, infrastructure, government reserve forests, protected area and biological corridor, watershed assessment status, Chamkhar Chhu river basin, land use &amp; settlement and TramCA and Bhutan-Arunachal Landscape for Living Himalayas Initiative (LHI), WWF Bhutan Program</li> <li>➤ Carry out comparative analysis of published land use land cover by Royal Government of Bhutan, ICIMOD and LHI mapping</li> </ul>
Organization:	Royal Thimphu College, Thimphu (2018)
Responsibilities:	<ul style="list-style-type: none"> <li>➤ Carry out Environmental Impact Identification, Assessment and Mitigation Assessment of Chelela Limestone Mining study area</li> <li>➤ Develop environmental checklist</li> <li>➤ Review general IEE of study area</li> <li>➤ Identify stakeholders for public consultation</li> <li>➤ Assess importance of socio-economic aspects in EIA</li> <li>➤ Produce EIA report for the study area</li> <li>➤ Review NEC's Sectoral Guidelines on different activities</li> </ul>
Employer:	WWF Bhutan Program
Year:	2013 - 2017
Location:	Kawajangsa, Thimphu, Bhutan.
Position:	GIS Officer
Responsibilities:	<ul style="list-style-type: none"> <li>➤ Set up, maintain, update GIS hardware and software</li> <li>➤ Supervise and train field staff in GIS and GPS</li> <li>➤ Cater GIS, RS and GPS services to program office, field staff and head office</li> <li>➤ Wildlife habitat suitability modelling</li> </ul>

	<ul style="list-style-type: none"> <li>➤ Corridor designing etc.</li> </ul>
Employer: Year: Location: Position: Responsibilities:	Sustainable Land Management Project (World Bank/GEF), National Soil Services Centre, Dept. of Agriculture, Ministry of Agriculture and Forests 2007 - 2013 Semtokha, Thimphu, Bhutan Surveyor <ul style="list-style-type: none"> <li>➤ Set up, maintain, update GIS hardware and software</li> <li>➤ Supervise GIS staff</li> <li>➤ Produced soil survey and natural resources maps</li> <li>➤ Produce soil map using Geostatistical modelling</li> <li>➤ Set up, maintain and update Druk Dynamic Information Framework (DrukDIF) using VIC and DHSM hydrological model</li> </ul>
Employer: Year: Location: Position: Responsibilities:	Wang Watershed Management Project, European Commission, Ministry of Agriculture 2003 - 2007 Bondey, Paro, Bhutan Land Use Planner/GIS Associate <ul style="list-style-type: none"> <li>➤ Watershed management</li> <li>➤ Land use planning</li> <li>➤ Set up, maintain, update GIS hardware and software</li> <li>➤ Set up, maintain, update of hydro-meteorology stations in the project areas</li> <li>➤ Monthly downloading, correction and analysis of hydro-meteorological data using HYDATA</li> <li>➤ Train field staff in GIS and GPS technology</li> <li>➤ Produce project multimedia using Dreamweaver</li> </ul>
Employer: Year: Location: Position: Responsibilities:	Land Use & Statistics Section Policy & Planning Division, Ministry of Agriculture, Thimphu, Bhutan 1994 – 2003 Thimphu, Bhutan GIS Assistant <ul style="list-style-type: none"> <li>➤ Setup, maintain and update of GIS hardware and software</li> <li>➤ Correct and update topographic and land use maps of Bhutan</li> <li>➤ Train dzongkhag sector officers and extension agents in GIS and GPS technology</li> <li>➤ Develop land use and land cover classification for Bhutan</li> <li>➤ Land capability mapping for pilot areas</li> </ul>
Employer: Year: Location: Position: Responsibilities:	Land Use Planning Project, DANIDA, Thimphu, Bhutan 1993 – 1994 Thimphu, Bhutan Digitizing Assistant <ul style="list-style-type: none"> <li>➤ Set up, maintain and update of GIS hardware and software</li> <li>➤ Digitize, correct and update topographic and land use maps of Bhutan</li> <li>➤ Train field staff in GIS software using PC ArcInfo</li> </ul>

Employer:	Bhutan Engineering Company Pvt. Ltd.
Year:	1992 – 1993
Location:	Thimphu, Bhutan
Position:	Computer Operator/Personal Assistant to Managing Director and Executive Director
Responsibilities:	<ul style="list-style-type: none"> <li>➤ Set up, maintain, update and operation of computer (hardware &amp; software) systems and ensuring machines are functional and secure.</li> <li>➤ Perform back-up procedures and tracking of data.</li> <li>➤ Monitor system operations and system performance.</li> <li>➤ Maintain and manage files on the system.</li> <li>➤ Manage diary, travel arrangements, process correspondence, maintain office systems, data management, maintain contact records, produce documents, briefing papers, arrange meetings, supervise incoming and outgoing mail etc.</li> </ul>

#### POSITIONS OF TRUST ETC.

1. Member of World Meteorological Organization (WMO)
2. Core Committee Member, Centre for GIS Coordination (CGISC), National Land Commission (NLC), Bhutan
3. Member of Steering Committee, CGISC, NLC, Bhutan
4. Technical Working Group (TWG) member and Coordinator for Land Cover Mapping Project, Sustainable Land Management Project, National Soil Services Centre, Department of Agriculture (DoA), Ministry of Agriculture and Forests (MoAF), Thimphu, Bhutan
5. Focal Person for Druk Dynamic Information Framework (DrukDIF), SLMP/NSSC, DoA, MoAF

#### TRAININGS

Type	Specialization	Institution	Location	From	To	Year	Funding
Workshop	Hydro-met and Cryosphere	National Center for Hydrology & Meteorology	Paro, Bhutan	27 <sup>th</sup> March	31 <sup>st</sup> March	2017	NAPA II
”	Climate Smart Snow Leopard Landscape Mapping	Global Snow Leopard & Ecosystem Protection Program (GSLEP)	Kathmandu, Nepal	25 <sup>th</sup> April	27 <sup>th</sup> April	2016	AHM/WWF
”	Snow Leopard Landscape Mgt. Planning	GSLEP	Kathmandu, Nepal	20 <sup>th</sup> April	23 <sup>rd</sup> April	2016	”
Training	Valuation of Ecosystem Services using InVEST model	Dept. of Forests and Park Services, Min. of Agriculture and Forests	Paro, Bhutan	25 <sup>th</sup> May	29 <sup>th</sup> May	2015	WWF
”	GIS for Biodiversity Conservation	Royal Thimphu College	Thimphu, Bhutan	18 <sup>th</sup> May	22 <sup>nd</sup> May	2015	The SCGIS
”	Ecosystem Based Spatial Planning	Sustainable Rural & Regional Dev. Forum Indonesia	Jakarta, Indonesia	27 <sup>th</sup> Oct	5 <sup>th</sup> Nov	2014	WWF

		(SRRED-FI)					
”	ArcGIS Online	Royal Thimphu College (RTC)	Thimphu, Bhutan	22nd Oct	23rd Oct	2014	RTC
”	Fundamentals of Climate Change Adaptation	WWF Bhutan and Forestry Department	Thimphu, Bhutan	19th May	22nd May	2014	WWF
”	Operational Imperatives for E Governance	Chiphen Rigpel	Thimphu, Bhutan	12 <sup>th</sup> June	21 <sup>st</sup> June	2013	SLMP/ NSSC
Workshop	DrukDIF Hydrological Modeling (resource person)	Sustainable Land Management Project, NSSC, DoA, MoAF	Thimphu, Bhutan	5 <sup>th</sup> June	12 <sup>th</sup> June	2013	World Bank/ GEF

Training	DrukDIF Hydrological Modeling (VIC & DHSVM)	University of Washington	Seattle, USA	18 <sup>th</sup> Feb	17 <sup>th</sup> Mar	2013	World Bank/ GEF
Training	Integrated Valuation of Ecosystem Services and Tradeoffs (INVEST)	WWF Bhutan Program Office	Thimphu, Bhutan	3 <sup>rd</sup> Dec	8 <sup>th</sup> Dec	2012	WWF
”	Probabilistic Risk Assessment, CAPRA Initiative	DDM, MoHCA & Disaster Risk Management of South Asia Region, the World Bank	Thimphu, Bhutan	4 <sup>th</sup> Dec	6 <sup>th</sup> Dec	2012	World Bank
Workshop	Land Degradation Assessment & Monitoring for Sustainable Land Management & Climate Change Adaptation in South Asia	United Nations’ FAO, MoA & DoA, Sri Lanka	Kandy, Sri Lanka	28 <sup>th</sup> Oct	31 <sup>st</sup> Oct	2012	FAO
Resourc	Geo-Database Management (resource person)	College of Science and Technology	Phuentsholing Bhutan	13 <sup>th</sup> Aug	19 <sup>th</sup> Aug	2012	MoWHS & CST
Workshop	Partnerships for Improving the Performance of RS, GIS and use of Geo-Informatics System for Bhutan Scientists	GISTDA/NEC, Thimphu	Thimphu, Bhutan	19 <sup>th</sup> March	23 <sup>rd</sup> March	2012	GISTDA
Training	Arc SWAT for Watershed Assessment	Watershed Management Division, MoAF	Thimphu, Bhutan	10 <sup>th</sup> May	21 <sup>st</sup> May	2010	SLMP/ NSSC
”	Mapping of Soil Properties using Geo-statistics	Yale University	Connecticut, USA	19 <sup>th</sup> Mar	1 <sup>st</sup> Apr	2010	World Bank (SLMP)
”	Advance GIS in Geo-statistical Modeling	UWICE/Yale University	Bumthang, Bhutan	24 <sup>th</sup> Dec	26 <sup>th</sup> Dec	2009	DNRM
Certificate	Dev. & Harmonization of LCC of Bhutan within HKH Region	Institute of Management Studies (IMS), Thimphu	Thimphu, Bhutan	16 <sup>th</sup> Nov	20 <sup>th</sup> Nov	2009	ICIMOD

Certificate	Participatory Training Dev. & Managing Training of Trainers	National Soil Services Centre, DoA, MoAF	Thimphu, Bhutan	21 <sup>st</sup> Sept	24 <sup>th</sup> Sept	2009	NSSC
Certificate	Above-ground Biodiversity Assessment	World Bank & Center for Biodiversity Mgt, Queensland, Australia	Zhemgang, Bhutan	16 <sup>th</sup> July	21 <sup>st</sup> July	2009	NSSC
”	ALOS Image Processing	SAIT, Kathmandu,	Nepal	7 <sup>th</sup> Apr	18 <sup>th</sup> Apr	2008	SLMP/LCMP
”	Advanced Geo-Informatics Applications for NRM	RNRRC, Wengkar	Bhutan	26 <sup>th</sup> Mar	21 <sup>st</sup> Apr	2007	SNV/DNRM
Conference	International Conference on Women and Decertification	Beijing	China	29 <sup>th</sup> May	1 <sup>st</sup> Jun	2006	UNCCD
Certificate	HYDATA (Hydrological Database Analysis)	DoE, MoTI	Bhutan	9 <sup>th</sup> Jan	13 <sup>th</sup> Jan	2006	WWMP
”	Geo-Informatics for Rangeland Resources Mgt.	ICIMOD, Kathmandu	Nepal	5 <sup>th</sup> Dec	16 <sup>th</sup> Dec	2005	WWMP
”	Protective Land Use Planning	WWMP, Paro	Bhutan	18 <sup>th</sup> Oct	19 <sup>th</sup> Oct	2005	WWMP
”	Global Positioning Systems (GPS)	DSLRL, MoHA	Bhutan	26 <sup>th</sup> Sept	30 <sup>th</sup> Sept	2005	DSLRL
”	Geo-Informatics	DSLRL	Bhutan	8 <sup>th</sup> Nov	26 <sup>th</sup> Nov	2004	SNV
Certificate	Tool Book Multimedia Design	Rigsum Institute of Technology	Bhutan	25 <sup>th</sup> Oct	30 <sup>th</sup> Oct	2004	WWMP
”	ArcGIS 8.1 Software	National Agency for GIS Coordination (NAGISC), Thimphu	Bhutan	3 <sup>rd</sup> Sept	11 <sup>th</sup> Sept	2002	ICIMOD
Workshop	State of the Environment Data Collection and Reporting	NEC/UNEP EAP.AP	Bhutan	3 <sup>rd</sup> Aug	6 <sup>th</sup> Aug	1999	UNEP
Training	Logical Framework	World Bank	Bhutan	29 <sup>th</sup> March	29 <sup>th</sup> March	1999	World Bank
Certificate	Remote Sensing and Digital Image Processing	ICIMOD, Kathmandu	Nepal	4 <sup>th</sup> Jan	29 <sup>th</sup> Jan	1999	DANIDA

Certificate	PC based Advanced Remote Sensing GIS	Asian Institute of Technology (AIT)	Bangkok, Thailand	25 <sup>th</sup> Mar	14 <sup>th</sup> Jun	1996	DANIDA
”	Type Writing	Royal Institute of Management	Thimphu, Bhutan	1 Apr	12 <sup>th</sup> Aug	1992	Self
Certificate	Computer Programming	Indian Institute of Computer Studies, Gaya	Bihar, India	1 <sup>st</sup> Nov 1991	29 <sup>th</sup> Feb	1992	Self
”	Type Writing	Daijokyo Japanese Training School	Bodhgaya, India	1 <sup>st</sup> July	31 <sup>st</sup> Dec	1990	Self



Full name / signature : Deki Wangmo	Date: August, 2021
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