

Curriculum Vitae

HIGHLIGHTS OF QUALIFICATION

- Holds **Bachelor, Master and Doctoral Degrees in Forest Science, Bachelor degree in business administration and master level study in Sociology/Anthropology**
- Expert in monitoring and evaluation of donor funded projects in developing countries
- Expert in monitoring the implementation of forest management plan and evaluating the economic impact of forest policies
- Expert on timber supply analysis
- Expert on timber pricing
- Expert on forestry business plan analysis and development, forestry business data and policy
- Developed Saskatchewan Forest Management Planning Standard
- Managed Soft Lumber file in the province of Saskatchewan as Canada-US softwood lumber trade dispute and negotiation is in the process
- Developed forest management plans in the province of Saskatchewan
- Served as Saskatchewan Forest Service Branch's representative on ministerial working group on **woodland caribou management** and Canadian Standard Association (CSA) Technical Committee on Sustainable Forest Management Certification Standards
- Excellent public speaking skills – various presentations at conferences and to senior executives
- Solid grasp on quantitative and quantitative research methods
- Scholarship holder throughout university studies
- More than 10-peer reviewed publications in international journals and more than 100-citations
- Registered Professional Forester (RPF) in Saskatchewan

LICENSES

Registered Professional Forester (RPF) in Saskatchewan

FORMAL EDUCATION

- Doctor of Philosophy in Forest Science, Laval University, Canada (2013) – specialization in forest management
- Master of Science Tropical Forestry, Wageningen University, The Netherlands (2002) – specialization in silviculture and forest management
- Bachelor of Science in Forestry, Tribhuwan University, Nepal (1999)
- Bachelor of Business Administration, Tribhuwan University, Nepal (1997) – major in marketing and foreign trade
- Certificate in Forestry, Tribhuwan University, Nepal (1991)
- Master of Arts in Sociology/Anthropology, Tribhuwan University, Nepal (course work completed)

PROFESSIONAL EXPERIENCE

Forest Economics Policy Advisor, Alberta Agriculture and Forestry, Edmonton (AB) July 2019 to date

- Enhancing my analytical skills on forest economics and market related issues
- Improving skills on stumpage and timber valuation
- Honing skills on economic impact assessment as a result of land management decisions
- Updating timber damage assessment rate table

Senior Forestry Analyst, SK Ministry of the Economy, Prince Albert (SK) August 2016 to June 2019

- Polished skills on economic analysis of forest industry in the province
- Developed skills on analysis of forest products market
- Forecasted revenues from forestry sector in the province in an annual basis
- Reviewed timber royalty system in the province to make it more market oriented
- Lead or assisted the executive director in expanding and further developing forestry sector in the province
- Lead economic aspect of forest management plan development in the province
- Lead economic analysis of provincial woodland caribou range plan
- Monitored the implementation of forest management plans
- Evaluated the economic impact of various forest policies in the province

Forest Management Expert, SK Ministry of Environment - May 2014 – Aug 2016

- Polished my program planning, designing, developing, implementing and evaluation skills by leading or participating in forest management plan development teams. One plan completed and worked on 5-more
- Enriched skills in policy and regulation development by leading provincial forest management planning standard development process
- Honed my skill on forest operational planning and reviewing the plans submitted by industry
- Demonstrated excellent collaboration and negotiation skills by working together with forest industry to develop such plans
- Refined my presentation skills by presenting new policy analysis reports (i. e., tactical plan, criteria and indicators for sustainable forest management, woodland caribou recovery strategies, linkage between operational and strategic plans etc.) to senior management of the branch and industry partners
- Developed a thorough understanding of government decision making process by preparing several briefing notes
- Improved strategic leadership, collaboration and partnership building skills by continually participating in various government-industry joint committees, including Caribou Recovery Strategy Team, etc.
- Polished leadership skills by representing the branch in ministry level working group on woodland caribou recovery strategy
- Honed my team building skills by leading forest management planning teams which are multidisciplinary

Narayan Prasad Dhital, PhD, RPF

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- Improved technical and data management expertise by helping out different colleagues in the branch on several functionalities of Microsoft Excel and SAS statistical application
- Polished forestry analytical skills by developing a database and dashboard on progress made by forest management companies in implementing their approved forest management plan. This database and dashboard can be extended to provincial scale as new data becomes available from other industry partners.
- Monitored the implementation of forest management plans in the province

Adjunct Faculty, Laval University, Quebec

Oct 2015 - Present

- Improved student facilitation and supervision skills by helping the student to develop his doctoral research proposal
- Refined the skill of conveying difficult concepts in simple and plain language
- Monitoring and supervising a doctoral student who is conducting a research on “Position and role of local actors in managing tropical forests in central Africa”.

Post-doctoral researcher, Laval University, University of Quebec, Canada Nov 2013 – May 2014

- Sharpened economic analysis skills by carrying out a research on economic viability of partial cutting in management of boreal forests in eastern Canada (paper in the process of publication)
- Polished curriculum development and public speaking skills by developing training materials on REDD+ and other international forestry issues and delivering training in Central African Region. A training manual was submitted to IUCN Cameroon office, Yaoundé, Cameroon
- Enhanced policy analysis skills by carrying out research on forest governance policy in Madagascar. The result of this research has been published in Canadian Journal of Development Studies
- Sharpened research grant proposal writing skills working with Prof. Damase Khasa during my doctoral study

Timber Supply Analyst, Chief Forester’s Office, Quebec

June – November 2013

- Improved modeling skills by quantifying the impact of wildfire on long term timber supply in forest management agreement areas
- Polished report writing and presentation skills by developing a report of this analysis and presenting results to senior officials and industry partners

Teaching/Research Assistant at Laval University, Quebec City, Quebec

Jan 2008 – Dec 2012

- Earned doctoral degree in forest science
- Improved my communication and presentation skills by delivering a lecture based tutorial a week on forest management (2008 and 2009)
- Honed the data analysis and model building skills by calibrating growth and yield models from temporary and permanent sample plot data

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- Developed wood supply modeling skills in Woodstock by building long term wood supply forecast models under traditional sustained yield management and ecosystem based management of boreal forests in eastern Canada
- Polished modeling skills further by quantifying the impact of climate change on long term wood supply.
- Honed research result presentation skills by developing manuscripts and publishing them in international peer reviewed journals as well as presenting result results in different national and international forums in the form of oral or poster presentations

Community Development Specialist, Tibet, China

Dec 2002 – Mar 2006

- Improved skills of organizing people in the form of community forest user groups (CFUG), community conservation committees (CCC) and watershed user groups
- Polished communication skills through raising awareness on the importance of local participation in forest resources conservation and management
- Honed the MS Access skills through developing a project monitoring system in that application. This skill was further enhanced while developing a forest management trend tracker in Saskatchewan
- Mastered participatory methods through developing and testing participatory planning tools for village conservation and development. An article in this issue has been published in PLA notes (52).
- Developed skills on zoning and stratification of national park area into core, buffer and economic development zones based on selected attributes through practical exercise
- Developed skills on ecotourism planning through a collaborative work with local government officials and international experts to develop ecotourism plans in the Himalayas (Mt. Everest (8,848) m and Mt. Shishapangma (8,012 m))
- Honed the planning skills through participation as a planning team member to develop Mount Everest National Park management plan in Nepal (2005-2010)
- Developed operational planning, budgeting and implementation skills by leading such work using participatory methodologies for three consecutive years (2003-2005)
- Honed training and curriculum development skills through conducting training need assessments, training design and material development, and delivering training in parks and protected area management
- Mastered gender inclusive development by working as gender focal point for the project and developing gender mainstreaming strategy
- Developed human resources management skills by supervising, coaching and mentoring field level staffs of the project
- Sharpened development grant proposal writing skills by participating in writing different grant proposals

Monitoring and Evaluation Specialist, New ERA Ltd. Kathmandu, Nepal, Mar – Nov 2002

- Developed a monitoring system and evaluation framework for the forest based enterprises in western Nepal
- Developed business plans for a number of small scale forest based enterprises in western Nepal

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- Guided the field technicians in inventory of community forests and development of forest management plans with participation of local people in western Nepal
- Mastered gender inclusive development by working as gender focal point for the project and developing gender mainstreaming strategy

Monitoring officer, Nepal Australia Community Forestry Project, Kathmandu, Nepal, Sep 1999 – Aug 2000

- Facilitated and assisted in formulating the constitutions of CFUGs as a legal entity to manage forests locally
- Lead and supervised 4-teams of 5-technicians each and local forest users in carrying out inventory, data analysis and management prescription design of more than 30 community forests as part of the management plan preparation for those forests
- Lead the same team in surveying and mapping of community forests using GPS and GIS tools respectively

Forest Ranger, Government of Nepal

Aug 1991 – July 1995

- Facilitated and assisted in the formulation of community forest management plans (CFMP) to the CFUGs in Nepal
- Lead the introduction of community forestry and reforestation campaign in mountain areas of Nepal in early 1990s.
- Established a database of licensed forest resource processing facilities and regularly updated timber supply in different parts Nepal
- Performed compliance monitoring of forest management activities and forest processing facilities in different parts of Nepal
- Lead and supervised more than 100 staffs (including armed forest guards)

Short term consultancies

- Project based mechanism (clean development mechanism, CDM, and joint implementation, JI) expert of the Kyoto Protocol (2007 – to date, minimum 25-days in a year) - UNFCCC secretariat, Bonn, Germany
 - ✓ Validation and verification of CDM afforestation and reforestation projects with regard to greenhouse gas emission reduction by such projects (4- projects validated so far)
 - ✓ Accreditation/reaccreditation audit of companies interested in providing CDM/JI services against CDM/JI rules (10 companies audited so far)
 - ✓ Honed the auditing and monitoring skills during these consultancies
- Agriculture and Environment specialist (Feb – May 2009) - Tetra tech international development (Formerly ARDInc.), Vermont, the United States
 - ✓ Carried out an evaluation of USAID funded livelihood, conservation and cultural projects in Tibet and Tibetan areas of China
- Community Forestry Consultant (May – Sept. 2001) - Bagmati integrated watershed management project, Nepal
 - ✓ Lead the renewal of 10 community forestry management plans in Bagmati watershed area of central Nepal

AWARDS AND RECOGNITIONS

- Post-doctoral fellowship (MITACS, UQAT, Quebec, Canada 2014)
- Doctoral fellowships (Awarded by my Ph. D. promoter through NSERC funding to pursue Ph. D. at Laval University, Canada, 2008 - 2012)

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- Netherland's Fellowship Program (for master level study in the Netherlands 2000 – 2002)
- Territorial Education Fellowship (Awarded by the AUSAid to pursue B. Sc. Forestry in Tribhuwan University, Nepal, 1995 – 1999)
- Tribhuwan University (Nepal) Merit Scholarship (while pursuing forestry diploma and undergraduate studies in forest science)

PROFESSIONAL AFFILIATIONS

- Registered Professional Forester (RPF) member of Association of Saskatchewan Forestry Professionals
- Member (1999 to date) – Nepal Foresters Association
- Member (2008-2012) – centre d'étude de la forêt (Centre for Forest Research), Quebec
- Executive member – Collaboration Quebec Nepal (2009, 2013-2014)
- Associate member (2002 – 2006) – Forest Action Nepal
- Elected vice-chair (2000 – 2001) – International Student's Panel, Wageningen, The Netherlands
- Executive member in parents committee of Valois school in Prince Albert (2015-2016)

OTHER PROFESSIONAL ENGAGEMENTS

- Reviewed part of the IPCC fifth assessment report from working group II (2013)
- Reviewed applications of "Land for Life" award of UNCCD (2012, 2013)
- Reviewer of the journals (Environment, Development and Sustainability, Journal of Forest and Livelihood, Forestry, Forests, Journal of Environmental Planning and Management, Ambio, Sustainability, International Journal of Environmental Research and Public Health)

TEACHING, TRAINING AND CAPACITY BUILDING

- Completed a training on "duty to consult" provided by the Saskatchewan Government on 28-29 October, 2015
- Followed a series of trainings for trainers at different levels (to train forest technicians, park associates and community forest user group members in Nepal and Tibet, China)
- Followed a series of 8 trainings provided by the secretariat of UNFCCC (Bonn, Germany) on assessing the compliance by entities of modalities, procedures, standards and manuals of UNFCCC/Kyoto Protocol and determination/ validation and verification performance assessment of JI and CDM projects by the same entities under Kyoto Protocol
 - ✓ Compliance assessment included the assessment of competence of the entity required to perform JI/CDM functions and assessment of competence of the personnel employed by the entity to perform JI/CDM functions against JI/CDM accreditation standards
 - ✓ Training also included the topics such as quality management, complaint, disputes and appeal procedures, avoiding conflict of interest and impartiality, maintaining confidentiality and document control.
- Carried out training need assessments, designed training and capacity building programs accordingly and delivered to community forest users groups and facilitators including forest rangers in Nepal and government employees in Tibet, China
- Developed and delivered a training package for government employees and civil society actors in Central African countries (Cameroon, Congo, Democratic Republic of Congo, Gabon and Central African Republic) on carbon market and climate change (including REDD+) negotiations
- Followed crucial conversation training (May 26-27, 2015, Saskatoon, SK)
- Followed a strategic communication skills training (Verbal Judo) (Nov 4-5, 2014, Prince Albert, SK)

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- Completed First Aid and emergency response training (May 27-28, 2014, Recertified April 27, 2017, Prince Albert, SK)
- Completed WHMIS training provided by Canadian Centre for Occupational Health and Safety (CCOHS)
- Completed 1-day respectful workplace training (Prince Albert, SK)
- Completed successfully quad operation theory and practical training (May 2015)
- Completed wildlife behavior training (May 6, 2015)
- Participated a training on “Forest Products Value Chain Optimization (29-31 Aug 2011) in Laval University, Quebec
- Taught math and science to high school seniors and university juniors in a local franchise of Sylvan Learning Centre (<http://www.sylvanlearning.com>). Taught English, math and science to high school students when I was studying in college. Did teaching assistantship in forest management while pursuing doctoral degree in Laval University, Quebec.

ADDITIONAL PROFESSIONAL SKILLS

- Skilled with writing programs in SAS and R for the statistical analyses and designing graphics, developing the regression models, working with large databases such as forest inventory data and spatial analysis using ArcGIS.
- High level of skill in MS Excel, MS Access and expert on wood supply model development in Woodstock.
- All these skills obtained during graduate study and honed during the professional experiences
- Skilled in grant proposal writing (research as well as development). Wrote several research grant proposal with Prof. Damase Khasa while working in his lab in Quebec and development grant proposal while working for the Mountain Institute as well as for Collaboration Quebec-Nepal.

COMMUNICATION AND OUTREACH

Published, accepted or submitted scientific articles/theses

- Dhital, N. 2016. Domestication/Cultivation Potential of High Altitude Medicinal and Aromatic Plants in Central Nepal. *Jharkhand J. Dev. Mgmt. Studies*. 14(1):6885-6901
- Dhital, N., Shrestha, H, Gautam, S, Rijal, B. and Shrestha, B. M (2015). REDD+ as a development tool to improve rural livelihoods in Nepal. In: Adhikari, A. P. and Dahal, G. P. (Eds), *Sustainable Livelihood System in Nepal: Principles, Practices and Prospects*. IUCN and CFFN. Kathmandu, Nepal, pp. 215-236.
- Dhital, N; F Raulier; P Y Bernier; M P Lapointe-Garant and Y Bergeron. Adaptation potential of ecosystem-based management to climate change in the eastern Canadian boreal forest. *Journal of environment planning and management*. DOI: <http://dx.doi.org/10.1080/09640568.2014.978079> **(8 citations)**
- Dhital, N., Vololomboahangy, R. R. and Khasa, D. P. Issues and challenges of forest governance in Madagascar. *Canadian Journal of Development Studies*. DOI: <http://dx.doi.org/10.1080/02255189.2015.989197> **(4 citations)**
- Raulier, F., N. Dhital, P. Racine, R. Titler and A. Fall (2014). Increasing resilience of timber supply: How a variable buffer stock of timber can efficiently reduce exposure to shortfalls caused by wildfires. *Forest Policy and Economics*, 46: 47-55 (<http://dx.doi.org/10.1016/j.forpol.2014.06.007>) **(14 citations)**

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- Dhital, N. 2013. Feasibility of an ecosystem-based management in an eastern Canadian boreal forest: testing for ecological suitability, economic viability, social acceptability and adaptability to wildfire and climate change. Thesis submitted to Université Laval for the partial fulfillment of the doctoral degree (Ph. D.) in forest science.
- Dhital, N; F Raulier; H Asselin; O Valeria; L Imbeau and Y Bergeron 2013. Emulating natural forest disturbance dynamics: can we maintain timber supply, aboriginal land use and woodland caribou habitat? *Forestry Chronicle* 89:54-65 **(18 citations)**
- Dhital, N and F Raulier 2010. Timber supply Analyses under conventional and ecosystem-based management scenarios in an eastern boreal forest. Sustainable Forest Management Network, Canada, Research Notes Series No. 75
- Dhital N 2009. Reducing Emissions from Deforestation and Forest Degradation (REDD) in Nepal: Exploring the Possibilities. *Journal of forest and livelihood* 8 (1) 56 – 61 **(28 citations)**
- Dhital, N. 2006. Successful Practices of Social Inclusion in Charpala Community forest. *Hamro Ban Sampada (Nepali)*, 4(1): 29-31
- Dhital N 2005. Promoting Renewable Energy in Tibet. PLA Series 52 (August, 2005). International Institute of Environment and Development, London, UK.
<http://www.iied.org/pubs/pdfs/G02144.pdf>
- Dhital, N. 2004b. Domestication/Cultivation Potential of Selected High Altitude Medicinal and Aromatic Plants: A Study Based on Rasuwa District, Nepal. Working Paper 01/2004. The Mountain Institute, Asia Regional Office, Kathmandu, Nepal
- Dhital, N. 2004a. The Mountain Institute's Initiatives in conserving the Genus *Polylepis* in Andes. A Field Note. The Mountain Institute, Huaraz, Peru
- Dhital, N; K. P. Paudel and H. R. Ojha, 2003. Inventory Related Problems and Opportunities in Community Forestry: Findings of a survey. *Journal of Forest and Livelihood* 2 (2) 62 – 66 **(4 citations)**
- Dhital N 2002. Silvicultural Systems for Hill Sal (*Shorea robusta*) Forests in Nepal. MSc Thesis submitted to Wageningen University, The Netherlands
- Dhital, N. 1999. Effects of thinning operations on community forests and forest users groups. A project paper for bachelor degree in forestry submitted to Tribhuvan University, Nepal.

Oral and poster presentations

- Pasturel, T., Dhital, N, Valeria, O. and Bergeron, Y. 2015. Financial sustainability of an ecosystem-based management in an eastern Canadian boreal forest. A poster presented at the 17th Conference of the International Boreal Forest Research Association (IBFRA) organized in May 24 to 29, 2015 in Rovaneimi, Finland
- Emulating boreal forest disturbance dynamics: can we maintain timber supply, aboriginal land use, and woodland caribou habitat? A paper presented at the 16th Conference of the International Boreal Forest Research Association (IBFRA) organized in October 7 to 10, 2013 in Edmonton, Alberta.
- Impact of fire and climate change on timber supply in a forest management unit in western Quebec. An oral presentation at sixth annual conference of the Centre for Forest Research (CFR), Rouyn-Noranda, Quebec, Canada, 23 – 25 April, 2012.
- Analysis of volume prediction error in black spruce (*Picea mariana*) dominated forests in Québec, Canada. An oral presentation at fifth annual conference of the Centre of Forest Research (CFR), Quebec, Quebec, Canada, 10 - 12 April, 2011.

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- Is ecosystem management feasible in boreal forests? An oral presentation at fourth annual conference of the Centre for Forest Research (CFR), Sherbrook, Quebec, Canada, 12 – 14 March, 2010.
- Cultivation potential for the high altitude medicinal and aromatic plants in Central Nepal. An oral presentation at international conference on non-timber forest products, community economic development and forest conservation, Royal Roads University, Victoria, Canada, 25 – 27 August, 2005.
- “Impact of Social and Environmental Considerations on Timber Supply in the Boreal Forests”. A poster presented in a conference “Intensive Forest Management in Quebec” organized by “Réseau Ligniculture du Québec” in Quebec, March 17 – 18, 2010.
- “Ecosystem Management: is it a feasible landscape management strategy?” A poster presented in a conference “Envisioning tomorrow’s forest: knowledge networking for sustainability” organized by Sustainable Forest Management Network, Canada, in Gatineau, Quebec, 21 – 23 April, 2009