

# BHARAT POKHAREL

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## EDUCATION

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**Ph.D. in Forest Science (Forest Biometrics)** 2008

*Michigan Technological University, Houghton MI 49931, USA*

GPA: 3.98 (out of 4)

*Dissertation: A Critical Evaluation of Diameter Increment Modelling in the Great Lakes Region*

*Advisor: Robert E. Froese; Ph.D. Committee Members: D.D. Reed, C.R. Webster, and M.R. Smith*

**Bachelor of Science (Forestry) with First Class Honours** 1999

*Australian National University (ANU), Canberra ACT 0200, Australia*

GPA: 6.4 (out of 7)

*Honours Thesis: Use of GIS and Modelling to Determine the Site Productivity of an Uneven-aged Forest*

*Advisors: Brian J. Turner and Cris L. Brack*

## RELEVANT WORK EXPERIENCE

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**Postdoctoral Fellow** June 2009 – Present

*Department of Biology and Chemistry, Nipissing University, North Bay ON P1B 8L7, Canada*

*Advisor: Jeffery P. Dech*

**Postdoctoral Research Scientist** Dec 2008 – May 2009

*SFRES, Michigan Technological University, Houghton, MI 49931, USA*

*Advisor: Robert E. Froese*

## TEACHING EXPERIENCE

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### INSTRUCTOR

Principles of Ecology (BIOL 2446) Fall 2012

Biostatistics (BIOL 3117) Fall 2012

Forests and Global Warming (BIOL 4506) Spring 2011/2012/2013

*Nipissing University, North Bay, ON P1B 8L7, Canada*

Measuring Forest Resources (FW2050/FW5030) Fall 2005

*SFRES, Michigan Technological University, Houghton, MI 49931, USA*

### LAB INSTRUCTOR

Community Ecology (BIOL 3437) Spring 2010/2012

Techniques in Forest Ecology and Management (BIOL 2346) Fall 2009/2010/2011

*Nipissing University, North Bay, ON P1B 8L7, Canada*

## **ADDITIONAL WORK EXPERIENCE**

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<b>Research Assistant</b> <i>SFRES, Michigan Technological University, Houghton, MI 49931, USA</i> <u>Ph.D. Major Advisor: Robert E. Froese</u>	2004-2008
<b>Community Assistant</b> <i>Daniell Heights Apartments - Michigan Technological University, Houghton, MI 49931, USA</i>	2006-2008
<b>Program Officer – Terai</b> <i>Terai Arc Landscape Program - World Wildlife Fund (WWF), Kathmandu, Nepal</i>	2002-2004
<b>Project Manager</b> <i>Sagarmatha Community Agro-Forestry Project – WWF, Kathmandu, Nepal</i>	2001-2002
<b>Project Field Officer</b> <i>Sagarmatha Community Agro-Forestry Project – WWF, Kathmandu, Nepal</i>	1999-2001
<b>Data Collection and Research Assistant (Summer Internship)</b> <i>Department of Conservation and Natural Resources, Melbourne, VIC 3000, Australia</i>	1996
<b>Ranger (Natural Resource Management)</b> <i>Makalu-Barun National Park and Conservation Area Project - The Mountain Institute (TMI), Nepal</i>	1993-1994

## **PROFESSIONAL DEVELOPMENT AND SKILLS**

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<b>LeaderShape</b> <i>The LeaderShape Institute Inc., Champaign, IL USA</i>	2008
<b>Conservation Leadership</b> <i>WWF College for Conservation Leadership (Distance education – 18 months), The Netherlands</i>	2003-2005
<b>Project Management Training (2 weeks)</b> <i>SEARCH, Kathmandu, Nepal</i>	2002
<b>Karuna Management Training (One week long, two times)</b> <i>Karuna Management Institute, Kathmandu, Nepal</i>	2000-2001

### **COMPUTER SOFTWARE**

- Microsoft Office (Word, Excel, Powerpoint, Access data)
- R-Project for Statistical Computing, JMP, SPSS
- Geographical Information System (ArcMap 9.3)

## PEER-REVIEWED PUBLICATIONS

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Pokharel, B.; J. P. Dech, A. Groot and D. Pitt (*under review*). Ecologically-based predictive modeling of wood quality characteristics of black spruce (*Picea mariana* (Mill.) B.S.P.) in boreal landscapes of Northern Ontario. *Canadian Journal of Forest Research*

Dech, J.P.; Mayhew-Hammond, S.; James, A. and B. Pokharel 2014. Modeling Canada yew (*Taxus canadensis* Marsh.) distribution and abundance in the boreal forest of northeastern Ontario, Canada. *Ecological Indicators*, 36: 48-58.

Pokharel, B. and J.P. Dech 2012. Mixed-effects Basal Area Increment Models for Tree Species in the Boreal Forest of Ontario, Canada Using an Ecological Land Classification Approach to Incorporate Site Effects. *Forestry*, 85(2): 255-270.

Pokharel, B.; J.P. Dech and P. Uhlig 2012. A Tool for Converting Forest Ecosystem Classifications for Permanent or Temporary Growth Plots into the New Provincial Ecological Land Classification (ELC) System in the Boreal Regions of Ontario. *The Forestry Chronicle*, 88(1): 49-59

Pokharel, B. and J. P. Dech 2011. An Ecological Land Classification Approach to Modelling the Production of Forest Biomass. *The Forestry Chronicle*, 87(1): 23-32.

Pokharel, B. and R. E. Froese 2009. Representing Site Productivity in the Basal Area Increment Model for FVS-Ontario. *Forest Ecology and Management*, 258(5): 657-666.

Pokharel, B. and R. E. Froese 2008. Evaluating Alternative Implementations of the Lake States FVS Diameter Increment Model. *Forest Ecology and Management*, 255(5-6): 1759-1771.

## COMMUNITY/SCHOLARLY INVOLVEMENT

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### PROFESSIONAL MEMBERSHIPS

*Membership Coordinator*, Algonquin Section of Canadian Institute of Forestry (2011-present)

*Chair*, Algonquin Section of Canadian Institute of Forestry (2012-2013)

*Active Member*, Canadian Institute of Forestry (2010-present)

Life member, Nepal Forester's Association (since 2002)

Life member, Nepal Red Cross Society (since 2013)

Lead on **Forests without Borders** Project – “Sustainable Community Development through Trees for School Supplies Initiative in a rural region of Nepal” (Pokharel, Bharat; Clarke, Bill and Pinto Fred)  
(COMMUNITY AND SCHOLARLY INVOLVEMENT CONT'D)

### COMMITTEES AND COMMUNITY SERVICES

*Science Fair Judge*, North Bay Regional Science Fair 2013,  
April 3, Nipissing University, North Bay, ON P1B 8L7

2013

*Chair for Science and Nature Panel*, 2012 Undergraduate Conference,  
March 23-24, 2012, Nipissing University, North Bay, ON

2012

<b>Poster Judge - 5<sup>th</sup> Annual Graduate Research Forum, Ecosystem Science Center</b> <i>SFRES, Michigan Technological University, Houghton, MI 49931, USA</i>	2009
<b>Community Assistant</b> <i>Michigan Tech's Daniell Heights Apartments, Houghton, MI 49931, USA</i>	2006-2008
<b>Co-Chair - International Honorary for Leaders in University Apartment Communities</b> <i>MTU Chapter, Michigan Technological University, Houghton, MI 49931, USA</i>	2007-2008
<b>Member of Graduate Student Council</b> <i>Graduate School, Michigan Technological University, Houghton, MI 49931, USA</i>	2005-2006
<b>Secretary - Daniell Heights Residents Council (DHRC)</b> <i>Michigan Technological University, Houghton, MI 49931, USA</i>	2005-2006

## **SCHOLARSHIPS, AWARDS AND HONOURS**

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<b>Graduate Dean's Finishing Fellowship for Summer 2008</b> <i>Michigan Technological University, Houghton, MI 49931, USA</i>	2008
<b>Certificate of Merit on Applied Multivariate Statistics</b> <i>Mathematical Sciences Department - Michigan Technological University, Houghton, MI 49931, USA</i>	2006
<b>Horner Hardwood Research Award (US\$ 1,000)</b> <i>School of Forest Resources and Environmental Science, Michigan Tech., Houghton, MI 49931, USA</i>	2006
<b>Graduate Travel Grant (US\$ 750)</b> <i>Ecosystem Science Center, Michigan Technological University, Houghton, MI 49931, USA</i> <i>(SCHOLARSHIPS, AWARDS AND HONOURS CONT'D)</i>	2006
<b>2005's Inductee of International Honorary for Leaders</b> <i>University Apartments Communities (IHLUAC), Michigan Tech Chapter, Houghton MI 49931, USA</i>	2005
<b>Timbind Utilization Prize (a medal and AUS\$ 200)</b> <i>Boral Timber, Bathurst NSW 2795, Australia</i> <i>Department of Forestry, Australian National University, Canberra ACT 0200, Australia</i>	1998
<b>State Forests of New South Wales Scholarship (AUS\$ 2,000)</b> <i>State Forests of NSW, Pennant Hills, Australia</i>	1997-1998
<b>Scholarships</b> <i>Full Scholarship, AusAID (Australian Agency for International Development)</i>	1994-1998
<ul style="list-style-type: none"> <li>○ <i>Year 12 Certificate, Canberra Institute of Technology (CIT), Canberra ACT 2601, Australia</i></li> <li>○ <i>B.Sc. (Forestry) with Honours, Australian National University, Canberra ACT 0200, Australia</i></li> </ul>	