

# Mahesh Poudyal

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## KEY INTERESTS

Natural resources economics, community-based natural resources management, institutional aspects of natural resources management, land and tree tenure, customary tenure systems, protected areas management and park-people conflicts, poverty, livelihoods and resource degradation.

## EDUCATION

**PhD in Environment and Politics**, University of York, UK 2010

*Thesis: Tree Tenure in Agroforestry Parklands: Implications for the Management, Utilisation and Ecology of Shea and Locust Bean Trees in Northern Ghana*

**Master of Resource Management (CGPA 3.885)**, Simon Fraser University, Canada 2005

*Thesis: Economic Study of the Poaching of One-horned Rhinoceros in Chitwan, Nepal*

**B.Sc. Honours in Environment, Economics and Ecology (First Class)**, University of York, UK 2002

*Dissertation: Study of the Impacts of Leasehold Forestry in Kavre District, Nepal*

## RESEARCH EXPERIENCE

**Research Associate, Environment Department, University of York 2010-present**

*Study of Shea (Vitellaria paradoxa) in Sudano-Sahelian zone (INNOVKAR - EU Sixth Framework Project)*

As the Leader of Work Package 1 “Shea tree dynamics and fruit production in the parklands”, the role is to collaborate with INNOVKAR partners, utilizing the field data in order to: assess the impact of climate change and farmer practises of the natural regeneration of shea tree; assess the impact of climate change and farmer practises on fruit production; predict shea tree parkland dynamics on long term using a predictive model of Shea regeneration and production under different management scenarios.

**Post-graduate Researcher, Environment Department, University of York 2007-2010**

*Study of Shea (Vitellaria paradoxa) in Sudano-Sahelian zone (EU Sixth Framework Project)*

Leader of the Work Package 1 “Shea tree dynamics and fruit production in the parklands”

Responsibilities include:

- Preparing protocol for gathering field data on ecological, biophysical, and socio-economic aspects of *Vitellaria paradoxa*
- Coordinating data collection, database management, and data analysis in countries involved in the project (Burkina Faso, Ghana, Mali, Senegal and Uganda)
- Producing scientific, technical and project management reports

Deputy leader of the Work Package 2 “Adaptation and resilience of shea tree facing climate change and drought using ecophysiological and modelling approaches”

Responsibilities include:

- Sourcing and compiling shea distribution data for modelling
- Communicating and presenting the findings from the modelling of shea distribution under climate change with other project partners
- Working with colleagues in the department involved in modelling to improve the shea distribution modelling based on the feedback from other project partners and experts

**Research Assistant, Simon Fraser University 2003-2004***Study of Rhino Poaching in Chitwan and Nawalparasi Districts, Nepal*

Involved in conceptualisation of the research, and proposal preparation for funding, preparation and administration of household survey, data analysis and report write-up, and presentation of research results at various workshops, seminars and conferences.

**Principal Investigator 2001-2002***Study of Impacts of Leasehold Forestry, Kavre District, Nepal*

Involved in conceptualisation of the research, preparation and administration of household survey, and data entry, analysis and report write-up.

**TEACHING EXPERIENCE****Teaching Assistant, Environment Department, University of York, UK 2007/2008**

Occasional teaching duties in modules: *Environment, Law and Policy*; and *Forest Management*

**Teaching Assistant, Simon Fraser University, Burnaby, BC, Canada Fall 2004**

Running tutorials on the module *Global Change*

**SKILLS****Computing**

*Operating Systems:* Microsoft Windows 95/98/2000/XP, Apple Mac OS X, Ubuntu Linux | *Document processing:* Microsoft Office, OpenOffice, Apple iWork | *Maths, Stats and Econometrics:* SPSS, R (basic working knowledge), LIMDEP, EViews | *Graphics and Web Design and Databases:* Gimp (Image manipulation), Dreamweaver (Web design), HTML & CSS, MySQL (basic working knowledge), Website management

**Language**

**Nepali** - native language | **English** - speak fluently and read/write with high proficiency | **Hindi** - speak, read, and write with basic competence | **French** - Beginner (Completed Level 1 course)

**PUBLICATIONS AND PAPERS**

- Poudyal, M.** and J.C. Lovett. 2010. "Biodiesel as the potential alternative vehicle fuel: European policy and global environmental concern", in J.C. Lovett and D.G. Ockwell (eds) *A Handbook of Environmental Management*. Cheltenham, UK: Edward Elgar. (Forthcoming, June 2010)
- Poudyal, M.**, D. Knowler, and K. Rothley. "Ecological and economic analysis of poaching of the greater one horned rhinoceros (*Rhinoceros unicornis*) in Nepal". *Ecological Applications* 19 (7): 1693-1707.
- Lovett, J.C., and **M. Poudyal**. 2006. "Terraforming Africa". *African Journal of Ecology* 44: 302-304.
- Poudyal, M.**, and D. Knowler. 2005. "Economic Incentives and Poaching of the One-Horned Indian Rhinoceros in Nepal: Poaching of the One-Horned Indian Rhinoceros in the Chitwan Valley, Nepal - A Retrospective Econometric Analysis". *PREM Working Paper No. 05-07*. Poverty Reduction and Environmental Management (PREM) Program, Institute of Environmental Studies, Vrije Universiteit, Amsterdam, the Netherlands.
- Knowler, D., and **M. Poudyal**. 2005. "Economic Incentives and Poaching of the One-Horned Indian Rhinoceros in Nepal: Simulation Modelling of Policies to Combat the Poaching of Rhino in Royal Chitwan National Park, Nepal". *PREM Working Paper No. 05-11*. Poverty Reduction and Environmental Management (PREM) Program, Institute of Environmental Studies, Vrije Universiteit, Amsterdam, the Netherlands.
- Adhikari, B.P., W. Haider, O. Gurung, **M. Poudyal**, B. Beardmore, D. Knowler, and P. van Beukering. 2005. "Economic Incentives and Poaching of the One-Horned Indian Rhinoceros in Nepal: Stakeholder Perspectives in Biodiversity Conservation - Analysis of Local, National and Global Stakes in Rhino Conservation in Royal Chitwan National Park, Nepal". *PREM Working Paper 05-12*. Poverty Reduction and Environmental Management (PREM) Program, Institute of Environmental Studies, Vrije Universiteit, Amsterdam, the Netherlands.
- Rothley, K.D., D.J. Knowler, and **M. Poudyal**. 2004. "Population model for the greater one- horned rhinoceros (*Rhinoceros unicornis*) in Royal Chitwan National Park, Nepal". *Pachyderm* 37: 19-27.

## CONFERENCE PAPERS/ABSTRACTS

**Poudyal, M.**, and D. Knowler. 2006. "The Economics of Rhinoceros Poaching in Nepal: An Empirical Analysis and Theoretical Extension". Paper presented at the *International Conference on Economics of Poverty, Environment and Natural Resource Use*, 17–19 May 2006, Wageningen, The Netherlands.

Adhikari, B., and **M. Poudyal**. 2004. "Economic Incentives and Poaching of the One-Horned Indian Rhinoceros in Nepal". *International Society for Ecological Economics, 8th Biennial Scientific Conference, ISEE 2004*, 11–14 July 2004, Montréal, Canada.

## AWARDS

**Overseas Student Research Award (ORSAS Award), UK 2005-2008**

For the PhD degree at the University of York, UK

**Research Studentship, Environment Department, University of York 2005-2008**

For the PhD degree at the University of York, UK

**Graduate Fellowships 2002/2003**

For Master of Resources Management at Simon Fraser University, Canada

**Overseas Students' Trust Fund (OSTF) Scholarship 1999-2002**

For BSc in Environment, Economics, and Ecology at the University of York, UK

## MEMBERSHIPS

International Society of Ecological Economics (ISEE)

European Society of Ecological Economics (ESEE)

**References available upon request.**