

SURAJ UPADHAYA**Integrative Conservation of Nature and Forestry**

Warnell School of Forestry and Natural Resources, University of Georgia

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RESEARCH AND TEACHING INTERESTS

Forest-based ecosystem services, human-dimensions of natural resources, sustainability, application of GIS and remote sensing in natural resource management, landscape ecology, quantitative and qualitative methods, land use and land cover change analysis.

EDUCATION

PhD Expected 2019	In Progress
Integrative Conservation of Forestry and Natural Resources	
Warnell School of Forestry and Natural Resources	
University of Georgia	
Masters of Science	2015
Forest Resources	
Department of Forestry and Natural Resources	
University of Kentucky	
Bachelor of Science	2011
Forestry	
Institute of Forestry	
Tribhuvan University, Kathmandu, Nepal	
First Class with Distinction	
Technical Certificate	2006
Forestry	
Institute of Forestry	
Tribhuvan University, Pokhara, Nepal	

RESEARCH EXPERIENCE

Graduate Research Assistant	2015-Present
Dwivedi Forest Sustainability Lab	
Warnell School of Forestry and Natural Resources	
University of Georgia, Athens	
Graduate Assistant	2015-Present
Integrative Conservation of Nature and Forestry, ICON PhD	
University of Georgia, Athens	
Graduate Research Assistant	2013-2015
Department of Forestry, University of Kentucky, Lexington	
Research Intern	2017
Jagriti, Kullu, India	

TEACHING EXPERIENCE**Graduate Teaching Assistant**

University of Georgia, Athens Fall 2018

Economics of Renewable Resources (1 section, 27 students)

- Lectured, mentored students and graded assignments on theory, tools, and methods of economic analysis of renewable resources.

Society and Natural Resources (1 section, 48 students) Fall 2018

- Mentored students and graded assignments on fundamentals of society and natural resources.

Graduate Teaching Assistant

University of Kentucky, Lexington

Forest Management (1 section, 20 students) Fall 2013

- Lectured, mentored students and graded assignments on the fundamentals of managing forests for timber and non-timber production at the stand and forest level.

GIS and Spatial Analysis (1 section, 25 students) Fall 2013

- Lectured, mentored students and graded assignments on theory, tools, and methods in the principles and operations of geographic information systems (GIS).

GIS and Spatial Analysis (1 section, 30 students) Fall 2014

See description above.

Teacher

Dunai Boarding School, Dolpa, Nepal

Taught English, science & environmental education to students in grades 5 through 8 from rural regions of Dolpa. Various Dates

Self-Help Environmental Awareness Camp, Pokhara, Nepal 2006

Taught environmental education to students of grades 9 and 10 at Suryodaya Secondary School.

APPOINTMENTS

Work Study Scholar, SeedTree Inc. 2010-2012, 2015-2018

Nepal Program Coordinator, SeedTree Inc. 2012-2015

Executive Director, Youth for Nature, Nepal 2013-2018

Executive Assistant, Global Garden Consulting 2011-2013

BOOKS

Dahal, K., & **Upadhaya, S.** (2017). Impacts of Micro Enterprises on Livelihoods. A Case Study from Community Forest User Groups of Sindupalchok and Kavrepalanchowk District, Nepal. Lap-Lambert Academic Publishing, Germany.

Upadhaya, S. (2013). Dolpo, The Land of Hidden Treasure. Youth for Nature, Nepal.

Upadhaya, S. (2014). Dolpo, Where the Snow Leopard Roars. A Booklet on Mammals of Dolpo. Youth for Nature, Nepal.

Upadhaya, S. (2012). Spatial Interaction between Snow Leopard's Prey. A Case Study of Shey Phoksundo National Park, Nepal. Lap-Lambert Academic Publishing, Germany.

PEER-REVIEWED PUBLICATIONS

- Upadhaya, S.**, & Dwivedi, P. (2019). The Role and Potential of Blueberry Farming in Increasing Deforestation in Southern Georgia, United States. *Agricultural Systems* 173:39–48. doi: 10.1016/j.agsy.2019.01.002
- Upadhaya, S.**, & Dwivedi, P. Forestlands to Blueberries: Assessing Implications for Habitat Quality in Alabama River Watershed in Southern Georgia, United States. *Land Use Policy* (*Under Review*)
- Upadhaya, S.**, & Dwivedi, P. Typologies of Landowners Based on Their Motivation for Growing Blueberries Instead of Pine in the Southern United States Using Q Methodology. *Human Ecology* (*Submitted*)
- Ghimire, S., Dhungana, N., & **Upadhaya, S.** (2019). Impacts of Climate Change on Water Availability and Reservoir-based Hydropower. A Case Study from Kulekhani Hydropower Reservoirs, Nepal. *Sustainable Water Resources Management* (1):52-68.
- Black, D.E., Poynter, Z.W., Cotton, C.A., **Upadhaya, S.**, Taylor, D.D., Leuenberger, W., Blankenship, B.A., & Arthur, M.A. (2018). Post-wildfire Recovery of an Upland Oak–Pine Forest on the Cumberland Plateau, Kentucky, USA. *Fire Ecology* 14:14 <https://doi.org/https://doi.org/10.1186/s42408-018-0013-9>
- Dhungana, N., Silwal, N., Khadka, C., Regmi, S.K., & **Upadhaya, S.** How Rural Communities are Coping and Adapting to Climate Change: A Case Study from Nepal. *Society & Natural Resources* (*In review*).
- Dhungana, N., Silwal, N., **Upadhaya, S.**, Regmi, S.K., & Adhakari, S. Local People's Perception and Awareness of Climate Change: A Case Study of Community Forest of Lamjung, Western Nepal. *Banko Jankari* (*Accepted*).
- Upadhaya, S.**, Arthur, M.A., Cotton, C.A. Taylor, D.D. & Contreras M.A. Assessment of Burn Severity and Response of a Non-native Invasive Species in an Eastern Deciduous Forest using Landsat Thematic Mapper (TM) Imagery. (*In preparation*).
- Acharya, S., Rayamajhi, S., Sharma, S., **Upadhaya, S.**, Joshi, S., & Lamichhane, S. (2018). Anthropogenic Threats to Survival of the Critically Endangered Chinese Pangolins (*Manis pentadactyla*) and their Habitat in Kavrepalanchowk. *Journal of Biodiversity & Endangered Species* 6:3 <https://doi.org/10.4172/2332-2543.1000218>
- Tiwari, S., Nepali, S., Paudel, J., & **Upadhaya, S.** (2017). Ecotourism in Protected Areas of Nepal: An Application of Individual Travel Cost Method. *Research Journal of Agriculture and Forestry Sciences* 5(1): 1–7.
- Stapp, J.R., Lilieholm, R.J., Leahy, J., & **Upadhaya, S.** (2016). Linking Attitudes, Policy, and Forest Cover Change in Buffer Zone Communities of Chitwan National Park, Nepal. *Environmental Management* 57(6):1292–1303. <https://doi.org/10.1007/s00267-016-0682-6>
- Adhikari, S., Shrestha, S.M., Singh, R., **Upadhaya, S.**, & Stapp, J.R. (2016). Land Use Change at Sub-watershed Level. *Hydrology Current Research* 7(3):3–7. <https://doi.org/10.4172/2157-7587.1000256>
- Stapp, J.R., Lilieholm, R.J., **Upadhaya, S.**, & Johnson, T. (2015). Evaluating the Impacts of Forest Management Policies and Community-level Institutions in the Buffer Zone of Chitwan National Park, Nepal. *Journal of Sustainable Forestry* 34(5):445–464. <https://doi.org/10.1080/10549811.2015.1025080>
- Gauli, B., & **Upadhaya, S.** (2014). Reducing Emissions from Deforestation and Forest Degradation (REDD) in Nepal. A Review. *The Initiation* 5:75-83.

- Bridgewater, P., & **Upadhaya, S.** (2013). Model Forest and its Prospect in Nepal. *The Initiation* 4(1):120–124.
- Upadhaya, S.** (2009). Herbal Resources of Dolpa, The Nature; *The Journal for Green Revolution* 1(1):71-73.
- Upadhaya, S.,** Chalise, L., & Paudel, R.P. (2010). High Altitude Ramsar Sites of Nepal. *The Initiation* 3(0):135–148. <https://doi.org/10.3126/init.v3i0.2505>
- Upadhaya, S. (2010).** Energy Crisis and Nepal's Potentiality. *The Initiation* 2(1):130–135. <https://doi.org/10.3126/init.v2i1.2534>

NON PEER-REVIEWED PUBLICATIONS

- Upadhaya, S.** (2012). Dolpa: Where the Snow Leopard Roars: *The Light of Asia* 1(6):40-41.
- Upadhaya, S.** (2012). Dolpa: The Land of Hidden Treasure: *The Light of Asia* 1(4):39-40.
- Upadhaya, S.** (2012). Junior Ranger Program: Initiatives for Biodiversity Conservation, *Himalayas Nepal* 2(1):23.
- Upadhaya, S.** (2009). Dolpa: The Land of Hidden Treasure, *Prabeg*, 2(1):7-11.
- Upadhaya, S.** (2009). An Ecological Overview of the Snow Leopard. *Sunghava* 2(1).

REPORTS/THESES

- Upadhaya, S.** (2017). Human-Snow Leopard (*Panthera uncia*) Conflict in Northern Nepal-Dolpa. Snow Leopard Network, USA.
- Block, A., Evans, M., Hecht, D., **Upadhaya, S.**, Morris, H., & Gujarathi, S.T. (2017). Atlanta Biodiversity Potential Assessment. The Nature Conservancy (TNC), Atlanta, Georgia.
- Upadhaya, S.** (2015). Use of Landsat Data to Characterize Burn Severity, Forest Structure and Invasion by Paulownia (*Paulownia tomentosa*) in an Eastern Deciduous Forest. M.S. Thesis, University of Kentucky. http://uknowledge.uky.edu/forestry_etds/23
- Upadhaya, S.** (2011). Spatial Interaction between Snow Leopard's Prey: Blue Sheep and Livestock, A Case Study of Shey Phoksundo National Park, Nepal. B.Sc. Thesis, Tribhuvan University, Nepal.

MEDIA

- The Kathmandu Post (May 30,2018) The Gold Rush: Harvesting Yarsagumba is Profitable but such Practices should be Sustainable Too.
<http://kathmandupost.ekantipur.com/news/2018-05-30/the-gold-rush.html>

AWARDS & HONORS

- President's Special Needs Scholarship, UGA 2019
- Sidney Byers Scholarship, Wildlife Conservation Network. 2018
- Sidney Byers Scholarship, Wildlife Conservation Network. 2017
- The Forestry Graduate Student Award for Excellence in Research, Academic Performance, and Service. Department of Forestry, University of Kentucky. 2015
- Best Poster Award, 4th Annual Research Showcase. Tracy Farmer Institute for Sustainability and the Environment, University of Kentucky, Lexington. 2014
- Third Prize Poster Presentation, Student Conference on Conservation Science, Australia. 2013

- Memorial Award. Highest Score in Forest Management, Tribhuvan University, Nepalese Forester Association. 2012
- Genius Student Scholarship, Kathmandu Forestry College. 2008-2011
- Scholarship, Friends of Dolpa, USA. 2008-2011
- Outstanding Student Award, Kathmandu Forestry College. 2011
- 1st Prize, Poster Competition on Yatra Nepal, World Wetlands Day. 2009
- Outstanding Student, Technical Certificate, 2nd Year. Tribhuvan University. 2006

GRANTS

- ICON travel grants, 2019. \$300. 2018
- Developing sustainable human-elephant coexistence strategies for the endangered Asian Elephant (*Elephas maximus*) in eastern Nepal. Rufford Small Grant for Nature Conservation. \$8,000. Co-PI. 2017
- Sustaining *Ophiocordyceps sinensis* and community's livelihoods: Understanding the economic & ecological impacts of cordyceps harvesting in high mountains, Nepal. Rufford Small Grant for Nature Conservation. \$8,000. PI. 2016
- Human-Snow Leopard (*Panthera uncia*) conflict in northern Nepal-Dolpa. Snow Leopard Network. \$3,000. PI. 2016
- Biodiversity conservation in Dolpa. Ministry of Youth and Sports Nepal, Local Youth Partnership Program. \$2800. Team Leader. 2014
- Community-based conservation of Snow leopard in Dolpa. The Mohamed bin Zayed Species Conservation Fund. \$7,450. PI. 2013
- Tourism promotion through local youth participation. Ministry of Youth and Sports Nepal, Local Youth Partnership Program. \$1800. Team Leader. 2013
- Small-scale Research Grant, SeedTree USA. \$250. Team Leader. 2011
- The spatial interaction between Snow Leopard's prey – i.e., blue sheep and livestock (A case study of Shey Phoksundo National Park, Nepal). WWF-Nepal. \$300. 2011
- Assessment of spatial interaction between Snow Leopard's prey. Snow Leopard Conservancy. \$500. PI. 2011
- Biodiversity conservation in rural Dolpa. Friends of Dolpa. \$1500. Team leader. 2011

MEETING PRESENTATIONS

- Upadhaya, S., & Poudyal, B.** (2018). Understanding the harvesting trend of Yarchagumba (*Ophiocordyceps sinensis*) and its impacts on livelihoods of local people in a northern mountain of Nepal. Rufford Nepal Conference 2018. Kathmandu, Nepal.
- Poudyal, B., Khatiwada, B., Upadhaya, M., & **Upadhaya, S.** (2018). Developing sustainable human-elephant coexistence strategies for the endangered Asian Elephant (*Elephas maximus*) in Eastern Nepal. Rufford Nepal Conference 2018. Kathmandu, Nepal.
- Upadhaya, S., & Dwivedi, P.** (2017). Ascertaining extent of deforestation in southern Georgia due to agricultural expansion: An integrated approach. Society of American Foresters (SAF) Conference, Albuquerque, New Mexico.

- Upadhaya, S., & Dwivedi, P. (2017).** Why expansion in demand for blueberries is responsible for deforestation in Southern Georgia. Understanding through an integrative approach. Warnell Graduate Student Symposium. UGA, Athens.
- Upadhaya, S., & Dwivedi, P. (2017).** Why expansion in demand for blueberries is responsible for deforestation in Southern Georgia. Understanding through an integrative approach. Symposium on Integrative Conservation. UGA, Athens.
- Block, A., Evans, M., Hecht, D., **Upadhaya, S.**, Morris, H., & Gujarathi, S.T. (2017). Planning for urban biodiversity conservation in Atlanta. Symposium on Integrative Conservation. UGA, Athens.
- Upadhaya, S., & Dwivedi, P. (2016).** Why expansion in the demand for blueberries is responsible for deforestation in Southern Georgia. Developing an understanding through an integrative approach. 3rd Annual UGA Sustainability Science Symposium., Athens.
- Upadhaya, S., & Dwivedi, P. (2016).** Assessment of profitability of competing land use systems: Blueberry production vs loblolly pine plantations in Southern Georgia. 2016 Meeting of the International Society of Forest Resource Economics, Raleigh, NC.
- Upadhaya, S., & Dwivedi, P. (2016).** Arresting deforestation through sustainable landscape management. Warnell Graduate Student Association Symposium, Athens, Georgia.
- Upadhaya, S. (2015).** Assessment of burn severity and response of non-native invasive species in an Eastern deciduous forest using Landsat imagery. SOFOR GIS, Athens, Georgia.
- Upadhaya, S., Arthur, M.A., & Contreras, M. (2014).** Assessment of burn severity and response of non-native invasive species in an Eastern deciduous forest using Landsat imagery. Tracy Farmer Institute for Sustainability and the Environment. 4th Annual Research Showcase, Lexington, Kentucky.
- Upadhaya, S., Arthur, M.A., & Contreras, M. (2014).** Assessment of burn severity and response of non-native invasive species in an Eastern deciduous forest using Landsat imagery. Kentucky Academy of Science, Centennial Meeting, Lexington.
- Upadhaya, S. (2014).** Assessment of burn severity using Landsat imagery, Department of Forestry Seminar Series, Lexington.
- Upadhaya, S. (2014).** Use of GIS in forest management in Nepal, Department of Forestry, University of Kentucky, Lexington.
- Upadhaya, S. (2013).** Community-based forest management in Nepal. Ecology Lab Group Meeting, Department of Forestry, University of Kentucky, Lexington.
- Upadhaya, S. (2013).** Human-Snow Leopard conflict: A case study from Shey Phoksundo National Park, Western Nepal, SCCS, University of Queensland, Brisbane, Australia.
- Upadhaya, S. (2012).** Spatial interaction between Snow Leopard's prey: Blue Sheep and livestock, Student Conference on Conservation Science (SCCS), Bangalore, India.
- Upadhaya, S. (2011)** Spatial interaction between the Snow Leopard's prey: Blue Sheep and livestock. Student Seminar, Tribhuvan University, Kathmandu, December.

INVITED PRESENTATIONS

Upadhaya, S. (2018). Human dimensions of wildlife conservation in Nepal. Annual Meeting, The Katie Adamson Conservation Foundation, Colorado, USA.

SYNERGISTIC ACTIVITIES

Board Member: International Student Advisory Board, University of Georgia.	2018-present
Executive Member, Nepalese Student Association, University of Georgia.	2016-present
Treasurer, Organized ICON Network and Cooperative (OINC).	2016-2018
Advisor: Rural Educational Social and Environmental Conservation Team.	2014-present
Mentor, Undergraduate Mentoring Program, Warnell Grad. Student Assoc.	2018
Mentor, Shop with a Bulldawg, University of Georgia.	2016-present

LANGUAGES

Nepali (Native)
English (Fluent)
Hindi (Fluent)

PROFESSIONAL MEMBERSHIPS

Member, Society of American Foresters (SAF)
Member, Society of Conservation Biology
Member, American Association of Geographers (AAG)
Life Member, Nepal Foresters Association
Member, Bio-Cultural Diversity Thematic Group of the Ramsar Culture Network
Member and Founder, Youth for Nature, Dolpa, Nepal
Member and Founder, Rural Educational Social and Environmental Conservation Team, Dolpa Nepal
Member, Akasha Academy, Nepal
Member, Snow Leopard Network

PROFESSIONAL SKILLS AND SOFTWARE

ArcGIS, IDRISI, ERDAS Imagine, TerrSet, Google Earth Engine, FRAGSTATS
INVEST, Land Change Modeller
R, JMP, SPSS, SAS, Matlab, @RISK
GPS, Compass, Map Reading
Microsoft Excel, Word, PowerPoint, Outlook

COUNTRIES VISITED

NEPAL, USA, Australia, Ireland, China, India, Turkey, Canada

COLLABORATORS**University of Georgia**

- Puneet Dwivedi (Forestry), Jeff Hepinstall-Cymerman (Landscape Ecology), Marguerite Madden (Geography), Esendugue Greg Fonsah (Ag Economics), Robert L. Izlar (Forestry)

University of Maine

- Robert Lilieholm (Forestry), Suman Acharya (Anthropology)

University of California, Berkeley

- Jared Stapp (ESPM)

Australian National University

- Peter Bridgewater (Ecosystem Services)

University of Kentucky

- Mary Arthur (Forest Ecology), Marco A. Contreras (Geo-spatial Analysis)

Oregon State University

- Chantal Tumpach (Forest Policy)

SeedTree Inc

- A.L. Tom Hammett, Carol Kinsey

Institute of Forestry, Nepal

- Sarada Tiwari

Youth for Nature

- Beeju Poudyal, Pratigya Gyawali

Care Nepal

- Nabin Dhungana

Katie Adamson Conservation Foundation

- David Johnson