

SURAJ UPADHAYA
Social-Ecological Researcher
Bioeconomy Institute

Iowa State University, 1140 Biorenewables Research Lab, 617 Bissel Rd, Ames, IA 50011

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EDUCATION

- 2019 **Doctor of Philosophy (Ph.D.)**
Integrative Conservation and Forestry
Warnell School of Forestry and Natural Resources
University of Georgia, Athens, GA
Dissertation: *Keep it Green or Make it Blue: Understanding the Dynamics of Land Use Changes and its Impacts on Ecosystem Services in the Context of Deforestation due to Blueberry Expansion in Southern Georgia. USA.*
- 2015 **Masters of Science (MS)**
Forestry
Department of Forestry and Natural Resources
University of Kentucky, Lexington, KY
Thesis: *Use of Landsat Data to Characterize Burn Severity, Forest Structure, and Invasion by Paulownia (Paulownia tomentosa) in an Eastern Deciduous Forest, Kentucky.*
- 2012 **Bachelor of Science (BSc.)**
Forestry
Tribhuvan University, Kathmandu, Nepal
Thesis: *Spatial Interaction Between Snow Leopard's Prey: Blue Sheep and Livestock, a Case Study of Shey Phoksundo National Park, Nepal.*
- 2009 **Certificate in Disaster Management**
Indira Gandhi National Open University
Maidan Garhi, New Delhi, India
- 2007 **Technical Certificate (ISc.)**
Forestry
Institute of Forestry
Tribhuvan University, Pokhara, Nepal

RESEARCH EXPERIENCES

- Nov 2022-current Social-Ecological Researcher
Bioeconomy Institute
Iowa State University, Ames, IA
- 2019-Nov 2022 Postdoctoral Research Associate
Department of Natural Resource Ecology and Management
Iowa State University, Ames, IA
- 2015-2019 Graduate Research Assistant
Dwivedi Forest Sustainability Lab
Warnell School of Forestry and Natural Resources
University of Georgia, Athens, GA

2015-2019 Graduate Assistant
Integrative Conservation of Nature and Forestry, ICON PhD
University of Georgia, Athens, GA

2013-2015 Graduate Research Assistant
Department of Forestry
University of Kentucky, Lexington, KY

2017 Research Intern
Jagriti, Kullu, India

PEER-REVIEWED PUBLICATIONS

[Google Scholars](#)

1. Belbase, K., Godar Chhetri, **S., Upadhaya, S.**, & Poudel, A.S.(2022). Understanding the impacts of forest management Sal (*Shorea robusta*) dominant forest stands in the western lowlands of Nepal. *Small-scale Forestry*. <https://doi.org/10.1007/s11842-022-09534-8>
2. **Upadhaya, S.**, Tiwari, S., Poudyal, B., Godar Chhetri, S., & Dhungana, N. (2022). Local People's Perception of the Impacts and Importance of Ecotourism in Central Nepal. *PLoS ONE* 17(5): e0268637. <https://doi.org/10.1371/journal.pone.0268637>
3. **Upadhaya, S.**, Arbuckle, J.G. (2021). Examining Factors Associated with Farmers' Climate-adaptive and Maladaptive Actions in the US Midwest. *Front. Clim.* 3, 70. <https://doi.org/doi:10.3389/fclim.2021.677548>
4. **Upadhaya, S.**, Arbuckle, J.G. (2021). Understanding Factors Influencing Farmers' Engagement in Watershed Management Activities. *Front. Sustain. Food Syst.* <https://doi.org/10.3389/fsufs.2021.669571>
5. Raut, S., **Upadhaya, S.**, Godar Chhetri, S., & Joshi, M.R. (2021). Assessing Governance Status: Learning from Community Forest User Groups, Nepal. *Journal of Forest and Natural Resource Management* 2 (1). DOI: <https://doi.org/10.3126/jfnrm.v2i1.40217>
6. Acharya, S., Sharma, H.P., Bhatara, R., Poudyal, B., Sharma, S., & **Upadhaya, S.** (2021). Distribution and Habitat Preferences of the Chinese Pangolin *Manis Pentadactyla* (Mammalia: Manidae) in the Mid-hills of Nepal. *Journal of Threatened Taxa* 13(8): 18959–18966. <https://doi.org/10.11609/jot.3952.13.8.18959-18966>
7. Poudyal, B., **Upadhaya, S.**, Acharya, S., & Khanal-Chhetri, B.B. (2021). Assessing Socio-economic Factors Affecting the Implementation of Payment for Ecosystem Services (PES) Mechanism. *World*, 2(1):81-91. <https://doi.org/10.3390/world2010006>
8. Prasai, R., Kafley, H., **Upadhaya, S.**, Thapa, S., Shrestha, P., Dudley, A., Timilsina, Y.P. (2021). Population Status and Distribution of the Critically Endangered Bengal Florican *Houbaropsis bengalensis* in the Grassland of Koshi Tappu Wildlife Reserve, Nepal. *Journal of Threatened Taxa* 13 (9): 19293-193001. <https://doi.org/10.11609/jott.6503.13.9.19293-19301>
9. **Upadhaya, S.**, Arbuckle, J.G., & Schulte, L.A. (2020). Developing Farmer Typologies to Inform Conservation Outreach in Agricultural Landscapes. *Land Use Policy* <https://doi.org/10.1016/j.landusepol.2020.105157>
10. **Upadhaya, S.**, Arbuckle, J.G., & Schulte, L.A. Individual and county-level factors influence farmers' use of 4Rs Plus nutrient management practices. *Journal of Soil and Water Conservation* (Under Review).

11. Belbase, K., Godar Chhetri, S., **Upadhaya, S.**, & Poudel, A.S. 2021. Understanding the impacts of forest management in Sal (*Shorea robusta*) dominant forest stands in the western lowlands of Nepal. *Small Scale Forestry* (Under Review)
12. **Upadhaya, S.**, Tiwari, S., Godar Chhetri, S., & Poudyal, B. Local People's Perception on the Impacts and Importance of Ecotourism in Central Nepal. *Plos One* (In Press)
13. Adhikari, S., Dhungana, N., & **Upadhaya, S.** (2020). Watershed Communities' Livelihood Vulnerability to Climate Change in the Himalayas. *Climatic Change*. 162, 1307-1321
<https://doi.org/10.1007/s10584-020-02870-8>
14. Dhungana, N., Silwal, N., **Upadhaya, S.**, Khadka, C., Regmi, SK., Joshi, & S, Adhikari. (2020). Rural Coping and Adaptation Strategies for Climate Change by Himalayan Communities in Nepal. *Journal of Mountain Science* 17(6). <https://doi.org/10.1007/s11629-019-5616-3>
15. Ghimire, P., Raut, N., Khanal, P., Acharya, S., & **Upadhaya, S.** (2020). Species in Peril: Assessing the Status of the Trade of Pangolins in Nepal. *Journal of Threatened Taxa* 12(8) 15776-15783.
16. Khanal, P., Wagle, B.H., **Upadhaya, S.**, Ghimire, P., & Acharya, S. (2019). Perceived Climate Change Impacts and Adaptation Strategy of Indigenous Community (Chepang) in Rural Mid-hills of Nepal. *Forestry: Journal of Institute of Forestry, Nepal*. 16: 48-61.
DOI: <https://doi.org/10.3126/forestry.v16i0.28353>
17. **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: <https://doi.org/10.1016/j.agry.2019.01.002>
18. **Upadhaya, S.**, & Dwivedi, P. (2019). Conversion of Forestlands to Blueberries: Assessing Implications for Habitat Quality in Alabama River Watershed in Southern Georgia, United States. *Land Use Policy* 89, 104229. DOI: <https://doi.org/10.1016/j.landusepol.2019.104229>
19. **Upadhaya, S.** & Dwivedi, P (2019). Blue over Green? Defining Typologies of Rural Landowners Growing Blueberry in Place of Forests in Georgia, United States. *Human Ecology*, 47 (5), 693-703. DOI: <https://doi.org/10.1007/s10745-019-00095-7>
20. 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. *Journal of Forest and Natural Resource Management* 1(1):52-68.
21. Tiwari, S., & **Upadhaya, S.** (2019). Local People's Perception Towards the Impact of Ecotourism on their Livelihood (A Case Study from Chitwan National Park, Nepal). *International SAARC Youth Scientific Conference (IYSC)*. 250-256.
22. 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/10.1186/s42408-018-0013-9>
23. Dhungana, N., Silwal, N., **Upadhaya, S.**, Regmi, S.K., & Adhikari, S (2018). Local People's Perception and Awareness of Climate Change: A Case Study of Community Forest of Lamjung District, Western Nepal. *Banko Jankari*, 28(2), 60-71.
24. 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. DOI: <https://doi.org/10.4172/2332-2543.1000218>
25. 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.
 26. 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. DOI: <https://doi.org/10.1007/s00267-016-0682-6>
 27. 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. DOI: <https://doi.org/10.4172/2157-7587.1000256>
 28. 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. DOI: <https://doi.org/10.1080/10549811.2015.1025080>
 29. Gauli, B., & **Upadhaya, S.** (2014). Reducing Emissions from Deforestation and Forest Degradation (REDD) in Nepal. A Review. *The Initiation* 5:75-83.
 30. Bridgewater, P., & **Upadhaya, S.** (2013). Model Forest and its Prospect in Nepal. *The Initiation* (4)120–124.
 31. **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>
 32. **Upadhaya, S.** (2010). Energy Crisis and Nepal’s Potentiality. *The Initiation* 2(1):130–135. DOI: <https://doi.org/10.3126/init.v2i1.2534>
 33. **Upadhaya, S.** (2009). Herbal Resources of Dolpa, The Nature; *The Journal for Green Revolution* 1(1):71-73.

REPORTS & THESES

1. **Upadhaya, S.**, Arbuckle, J.G., Jordhal, J., Nowatzke, L., & Schulte, LA (2022). Agricultural practice adoption. In Schulte Moore L, Jordahl J, (Eds.), *Carbon Science for Carbon Markets: Emerging Opportunities in Iowa*. CROP 3175. Iowa State University Extension and Outreach, Ames, Iowa.
2. Plastina, A., Arbuckle, J.G., Crespi, J., & **Upadhaya, S.** (2022). Carbon markets, past and present. In Schulte Moore L, Jordahl J, (Eds.), *Carbon Science for Carbon Markets: Emerging Opportunities in Iowa*. CROP 3175. Iowa State University Extension and Outreach, Ames, Iowa.
3. **Upadhaya, S.** (2019). Keep it Green or Make it Blue: Understanding the Dynamics of Land Use Changes and its Impacts on Ecosystem Services in the Context of Deforestation due to Blueberry Expansion in Southern Georgia, USA. Ph.D. Dissertation, University of Georgia <http://dbs.galib.uga.edu/cgi-bin/getd.cgi?userid=galileo&action=search& cc=1>
4. **Upadhaya, S.** (2017). Human-Snow Leopard (*Panthera uncia*) Conflict in Northern Nepal-Dolpa. Snow Leopard Network, USA.
5. Block, A., Evans, M., Hecht, D., **Upadhaya, S.**, Morris, H., & Gujarathi, S.T. (2017). Atlanta Biodiversity Potential Assessment. The Nature Conservancy (TNC), Atlanta, Georgia.

6. **Upadhaya, S.** (2015). Use of Landsat Data to Characterize Burn Severity, Forest Structure, and Invasion by Paulownia (*Paulownia tomentosa*) in an Eastern Deciduous Forest. Masters Thesis, University of Kentucky. http://uknowledge.uky.edu/forestry_etds/23
7. **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.

BOOKS & BOOK CHAPTERS

1. Bridgewater, P., **Upadhaya, S.** (2022). Genes and Memes in Cultural Landscape Conservation: Biocultural, Ecocultural, or Just Plain Cultural?. In: Silva, D. K., Taylor, K., & Jones, S.D (eds). The Routledge Handbook of Cultural Landscape Heritage in The Asia-Pacific. <https://doi.org/10.4324/9781003099994>
2. Bridgewater, P., **Upadhaya, S.**, Poudyal, B., Kunwar, R.M., Bussmann, R.W., & Paniagua-Zambrana N.Y. (2021) *Nigella sativa* L. Ranunculaceae. In: Kunwar R., Sher H., Bussmann R.W. (eds) Ethnobotany of the Himalayas. Ethnobotany of Mountain Regions. Springer, Cham. https://doi.org/10.1007/978-3-030-45597-2_162-1
3. 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.
4. Paudel, A., Parajuli, R., **Upadhaya, S.**, Kunwar, R.M., Bussmann, R.W., Paniagua-Zambrana, N.Y. (2021) *Parnassia nubicola* Wall. ex Royle. Celastraceae. In: Kunwar R.M., Sher H., Bussmann R.W. (eds) Ethnobotany of the Himalayas. Ethnobotany of Mountain Regions. Springer, Cham. https://doi.org/10.1007/978-3-030-45597-2_175-1
5. **Upadhaya, S.** (2012). Spatial Interaction between Snow Leopard's Prey. A Case Study of Shey Phoksundo National Park, Nepal. Lap-Lambert Academic Publishing, Germany.
6. **Upadhaya, S.** (2013). Dolpo, The Land of Hidden Treasure. Youth for Nature, Nepal.
7. **Upadhaya, S.** (2014). Dolpo, Where the Snow Leopard Roars. A Booklet on Mammals of Dolpa. Youth for Nature, Nepal.

BLOGS & OUTREACH

1. Bridgewater, P., & **Upadhaya, S.** (2022). What is biocultural diversity, and why does it matter? The Conversation. Available online <https://theconversation.com/what-is-biocultural-diversity-and-why-does-it-matter-168881>
2. **Upadhaya, S.** (2018). The Gold Rush: Harvesting Yarsagumba is Profitable, But Such Practices Should be Sustainable Too. The Kathmandu Post (May 30, 2018). <http://kathmandupost.ekantipur.com/news/2018-05-30/the-gold-rush.html>
3. **Upadhaya, S.**, & Upadhaya, A (2020). Dolpa Bhatta Aatkaune Paisa Latkaune. (in Nepali). Kantipur (Dec 17, 2020). https://ekantipur.com/opinion/2020/12/18/160826063490398060.html?fbclid=IwAR2cmV-9pnHpRA1jRAYcAKwPpqA8NmFNRuD3e4ndOh_zC144Hr9vuvNbGY8
4. **Upadhaya, S** & Upadhaya, A (2020) Corona kal ma Yarchagumna Sankalan (Cordyceps Harvesting during COVID19). (in Nepali). Kantipur (May 6, 2020)

https://ekantipur.com/opinion/2020/05/06/15887399185814664.html?fbclid=IwAR2rQ_9pX3wBnMutcw3EkwP-BDj7oYUpTwEe7ZZqPkOsFhvsomWfVGVyWP4

5. **Upadhaya, S.** (2020). पर्यावरण विनाशले महामारी फैलाउने भाइरस भित्र्याउन सघाउँछ (Degradation of Environment and COVID 19). (in Nepali) Naya Patrika (Mar 11, 2020)
<https://www.nayapatrikadaily.com/news-details/41008/2020-04-11>
6. **Upadhaya, S.** (2012). Dolpa: Where the Snow Leopard Roars: The Light of Asia 1(6):40-41.
7. **Upadhaya, S.** (2012). Dolpa: The Land of Hidden Treasure: The Light of Asia 1(4):39-40
8. **Upadhaya, S.** (2012). Junior Ranger Program: Initiatives for Biodiversity Conservation, Himalayas Nepal 2(1):23.
9. **Upadhaya, S.** (2009). Dolpa: The Land of Hidden Treasure, Prabeg, 2(1):7-11.
10. **Upadhaya, S.** (2009). An Ecological Overview of the Snow Leopard. Sunghava 2(1)

INVITED PRESENTATIONS

1. **Upadhaya, S.** (2021). Iowa farmer personality types and conservation outreach. Iowa Farmers Union. June 10, 2021.
2. **Upadhaya, S.** (2021). Human-snow leopard conflict in northern Nepal. A case from Dolpa. Scientific Research Promotion Program, Education Development Directorate, Ministry of Social Development, Karnali Province Nepal. April 17, 2021.
3. **Upadhaya, S.** & Arbuckle, J.G. (2021). Evaluation of 4R Plus programs in Iowa. 4R Plus stakeholders meeting, The Nature Conservancy, Iowa, March 25, 2021.
4. Arbuckle, J.G., & **Upadhaya, S.** (2020). Market research to support PFI cover crops outreach, Iowa farmers: types and characteristics, part II. Presented to Practical Farmers of Iowa. November 25, 2020.
5. **Upadhaya, S.** & Arbuckle, J.G. (2020). Research plan: Evaluation of the impact of 4R Plus programs in Iowa. 4R Plus stakeholders meeting, The Nature Conservancy, Iowa. July 15, 2020.
6. **Upadhaya, S.** & Arbuckle, J.G. (2020). Market research to support PFI cover crops outreach, Iowa farmers: types, characteristics, and perspectives on cover crops. Presented to Practical Farmers of Iowa. July 24, 2020.
7. **Upadhaya, S.** (2018). Human dimensions of wildlife conservation in Nepal. Annual meeting, The Katie Adamson Conservation Foundation, Colorado, USA.

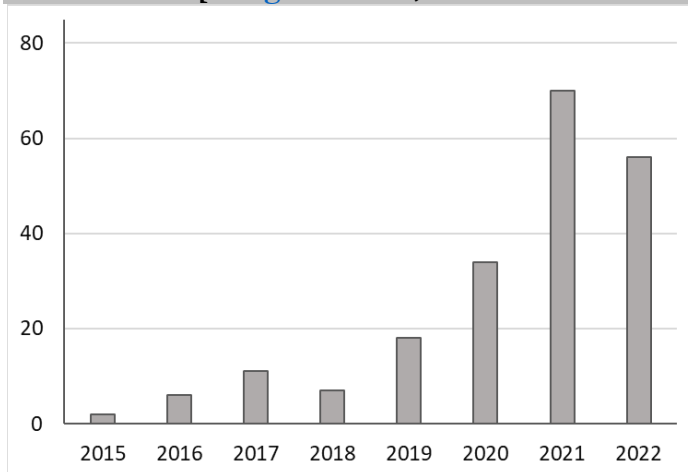
CONFERENCE PRESENTATIONS

1. **Upadhaya, S.** (2022). Diverging viewpoints on cordyceps harvesting and its ecological impacts: A Q-method study and survey of cordyceps harvesters in the Himalayas. Himalayan Studies Conference. Toronto 2022.
2. **Upadhaya, S.,** Arbuckle, J.G., & Schulte, LA (2022). Individual and county-level factors influence farmers' use of 4R Plus nutrient management practices. American Association of Geographer (AAG) Annual Meeting. Virtual. Feb 25-March 1, 2022.
3. **Upadhaya, S.,** Arbuckle, J.G., & Schulte, LA (2022). Defining typologies of farmer to inform conservation outreach in agricultural landscapes. Integrative Conservation Conference (ICC), Virtual. Feb 3-5, 2022.

4. **Upadhaya, S.**, Arbuckle, J.G., & Schulte, LA (2021). Developing farmer typologies to inform conservation outreach in agricultural landscapes. Society of American Foresters (SAF) National Convention, Virtual. Nov 3-6, 2021.
5. **Upadhaya, S.**, Arbuckle, J.G., & Schulte LA (2021). Individual and county-level influences on Iowa farmers' use of 4Rs Plus soil and water conservation practices. 76th Soil and Water Conservation Society (SWCS) International Annual Conference. Virtual. July 26-28, 2021.
6. **Upadhaya, S.**, Arbuckle, J.G., & Schulte, LA (2021). Developing farmer typologies to inform soil and water conservation outreach in Iowa's agricultural landscapes. American Association of Geographers (AAG) Annual Meeting, Virtual. April 7-11, 2021.
7. **Upadhaya, S.**, Arbuckle, J.G., Frautschy, P. & Schulte, LA (2021). A multi-level analysis of individual and county-level factors influencing farmers' use of 4Rs Plus nutrient management practices. Iowa Water Conference, Virtual. April 6-8, 2021.
8. **Upadhaya, S.**, Arbuckle, J.G., & Schulte, LA (2020). Developing farmer typologies to inform soil and water conservation outreach in Iowa's agricultural landscapes. Poster presented at Soil and Water Conservation Society (SWCS) International Annual Conference, Des Moines, IA, USA. July 27-29, 2020.
9. **Upadhaya, S.**, Schulte, LA., Valek, R. (2020). People in ecosystem/watershed integration (PEWI): A tool to assess dynamics land-use and ecosystem services tradeoffs. Poster presented at IALE-North America Annual Meeting, Toronto, Canada. May 11-14, 2020.
10. **Upadhaya, S.**, & Dwivedi, P. (2019). Blue over Green? Defining typologies of rural landowners growing blueberry in place of forests in Georgia, United States. Society of American Foresters (SAF) Conference, Louisville, Kentucky. October 30-Nov 3, 2019.
11. **Upadhaya, S.**, & Dwivedi, P. (2019). Conversion of forestlands to blueberries: Assessing implications for habitat quality in Alabama River Watershed in Southern Georgia, United States. Society of American Foresters (SAF) Conference, Louisville, Kentucky. October 30-Nov 3, 2019.
12. **Upadhaya, S.**, & Dwivedi, P. (2019). Impact of land use and land cover changes on the habitat quality in an agriculture-dominated watershed in southern Georgia. American Association of Geographers (AAG) Annual Meeting, Washington, DC. April 3-6, 2019.
13. **Upadhaya, S.**, & Poudyal, B. (2018). Understanding the harvesting trend of Yarchagumba (*Opiocordyceps sinensis*) and its impacts on the livelihoods of local people in a northern mountain of Nepal. Rufford Nepal Conference 2018. Kathmandu, Nepal.
14. 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.
15. **Upadhaya, S.**, & Dwivedi, P. (2017). Ascertaining the extent of deforestation in southern Georgia due to agricultural expansion: An integrated approach. Society of American Foresters (SAF) National Convention, Albuquerque, New Mexico.
16. **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.

17. **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.
18. 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.
19. **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.
20. **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.
21. **Upadhaya, S.**, & Dwivedi, P. (2016). Arresting deforestation through sustainable landscape management. Warnell Graduate Student Association Symposium, Athens, Georgia.
22. **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.
23. **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.
24. **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.
25. **Upadhaya, S.** (2014). Assessment of burn severity using Landsat imagery, Department of Forestry Seminar Series, Lexington.
26. **Upadhaya, S.** (2014). Use of GIS in forest management in Nepal, Department of Forestry, University of Kentucky, Lexington.
27. **Upadhaya, S.** (2013). Community-based forest management in Nepal. Ecology Lab Group Meeting, Department of Forestry, University of Kentucky, Lexington.
28. **Upadhaya, S.** (2013). Human-Snow Leopard conflict: A case study from Shey Phoksundo National Park, Western Nepal, SCCS, University of Queensland, Brisbane, Australia.
29. **Upadhaya, S.** (2012). Spatial interaction between Snow Leopard's prey: Blue Sheep and livestock, Student Conference on Conservation Science (SCCS), Bangalore, India.
30. **Upadhaya, S.** (2011). Spatial interaction between the Snow Leopard's prey: Blue Sheep and livestock. Student Seminar, Tribhuvan University, Kathmandu.

CITATIONS [[Google Scholar](#), Total 205 Citations on October 5, 2022]



TEACHING EXPERIENCES

- Spring 2022 Instructor, Iowa State University, Ames, IA
Ecosystem Management (2 sections, 35 students)
Lectured, mentored students, and graded assignments on theory, tools, and methods of ecosystem management.
- Spring 2021 Instructor, Iowa State University, Ames, IA
Ecosystem Management (2 sections, 26 students)
Lectured, mentored students, and graded assignments on theory, tools, and methods of ecosystem management.
- Spring 2020 Co-Instructor, Iowa State University, Ames, IA
Ecosystem Management (2 sections, 34 students)
Lectured, mentored students, and graded assignments on theory, tools, and methods of ecosystem management.
- Fall 2018 &
Spring 2019 Graduate Teaching Assistant, University of Georgia, Athens, GA
Economics of Renewable Resources (2 sections, 70 students)
Lectured, mentored students, and graded assignments on theory, tools and methods of economic analysis of renewable resources.
Society and Natural Resources (2 sections, 90 students)
Mentored students and graded assignments on fundamentals of society and natural resources.
- Fall 2013 Graduate Teaching Assistant, University of Kentucky, Lexington, KY
Forest Management (1 section, 20 students)
Lectured, mentored students, and graded assignments on the fundamentals of managing forests for timber and non-timber production at the stand and forest level.
- Fall 2013 &
Spring 2014 Graduate Teaching Assistant, University of Kentucky, Lexington, KY
Geographic Information Systems (GIS) in Forestry (1 section, 25 students)

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|-----------|---|
| Fall 2014 | <i>Lectured, mentored students, and graded assignments on theory, tools, and methods in the principles and operations of geographic information systems (GIS).</i> |
| 2004-2008 | Teacher, Dunai Boarding School, Dolpa, Nepal <i>English, Science, and Environmental Education, grades 5-8 from rural Dolpa (part-time).</i> |
| 2006 | Self-Help Environmental Awareness Camp, Pokhara, Nepal <i>Taught environmental education to students of grades 9 and 10 at Suryodaya Secondary School, Kathmandu, Nepal.</i> |

AWARDS & HONORS

| | |
|---|-----------|
| Dean's Citation for Extraordinary Contributions to the College of Agriculture and Life Sciences. Iowa State University. College of Agriculture and Life Sciences. | 2022 |
| Science and Research Promotion Award, Education Development Directorate, Karnali Province, Nepal | 2021 |
| Warnell Faculty Graduate Support Fund - Travel Award | 2019 |
| UGA Graduate Student Scholarship | 2019 |
| President's Special Needs Scholarship, UGA | 2018 |
| Sidney Byers Scholarship, Wildlife Conservation Network. | 2019 |
| 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

| | |
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| Sociological water quality research: quantifying factors at multiple scales that influence farmers to shift from being potential to actual adopters of conservation practices. Iowa Nutrient Research Center. \$97,696. PI | 2022-2024 |
| Advancing a new biobased value chain in the Corn belt to improve climate resilience, water quality, and rural vitality (aka biogas renewal). Walton Family Foundation. \$546,402. Co-PI | 2022-2025 |
| Land use land cover change and their implications for human-elephant conflict in Eastern Nepal. Rufford Small Grant for Nature Conservation. \$9,800 Co-PI | 2021-2022 |
| Market research to support cover crops outreach in Iowa. Practical Farmers of Iowa (PFI). \$19,751 Co-PI | 2020-2021 |
| Evaluation of the impact of 4R plus programs in Iowa. The Nature Conservancy | 2020-2022 |

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|---|-----------|
| (TNC). \$33,695 Co-PI | |
| Cordyceps, mountain, market, and people: Understanding challenges in conservation and sustainable trade of cordyceps in Nepal. Rufford Small Grant for Nature Conservation. \$8,900. PI | 2019-2020 |
| UGA Graduate School Travel Grants. \$650 | 2019 |
| ICON travel grants, 2019. \$300. | 2018 |
| Developing sustainable human-elephant coexistence strategies for the endangered Asian Elephant (<i>Elephas maximus</i>) in eastern Nepal. Rufford Small Grant for Nature Conservation. \$8,800. Co-PI. | 2017-2018 |
| Sustaining cordyceps fungus (<i>Ophiocordyceps sinensis</i>) and community's livelihoods: Understanding the economic & ecological impacts of cordyceps harvesting in high mountains, Nepal. Rufford Small Grant for Nature Conservation. \$8,200. PI. | 2016-2018 |
| Human-Snow Leopard (<i>Panthera uncia</i>) conflict in northern Nepal-Dolpa. Snow Leopard Network. \$3,000. PI. | 2016-2017 |
| 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. | 2013-2014 |
| 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 |

ACADEMIC ADVISING AND MENTORING

Graduate Committee Member (Tribhuvan University, Nepal)

Current MS Students

| | |
|-----------------------|--------------|
| Santosh Paudel (MS) | 2020-present |
| Sadhana Ranabhat (MS) | 2020-present |
| Sita Dahal (MS) | 2021-present |

Past MS Students

| | |
|-----------------------|------------------|
| Kritana Bhandari (MS) | Graduated (2020) |
| Sarada Tiwari (MS) | Graduated (2020) |
| Madhuri Khadka (MS) | Graduated (2019) |
| Beeju Poudyal (MS) | Graduated (2017) |

Undergraduate Thesis Advisor Committee Member (Tribhuvan University, Nepal)

| | |
|----------------|------|
| Nisham Thapa | 2019 |
| Susmita Satyal | 2017 |
| Beeju Poudyal | 2015 |

APPOINTMENTS

| | |
|---|----------------------|
| Director, Himalayan Conservation & Research Institute | 2019-2020 |
| Work-Study Scholar, SeedTree Inc. | 2010-2012, 2015-2019 |
| Nepal Program Coordinator, SeedTree Inc. | 2012-2015 |

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|---|-----------|
| Executive Director, Youth for Nature, Nepal | 2013-2018 |
| Executive Assistant, Global Garden Consulting | 2011-2013 |

SYNERGISTIC ACTIVITIES

| | |
|--|--------------|
| Committee Member, Diversity, Equity, and Inclusion. NREM Iowa State University | 2021 |
| Executive Board Member, SeedTree Inc | 2020 |
| Judge, 3MT, Three Minute Thesis Competition. Iowa State University. | 2019 |
| Board Member, International Student Advisory Board, UGA. | 2018-2019 |
| Executive Member, Nepalese Student Association, UGA. | 2015-2019 |
| Treasurer, Organized ICON Network and Cooperative (OINC). | 2016, 2017 |
| Advisor, Rural Educational Social, and Environmental Conservation Team. | 2014-current |
| Mentor, Undergraduate Mentoring Program, Warnell Grad. Student Assoc. | 2018 |
| Mentor, Shop with a Bulldawg, UGA. | 2018 |
| Executive member, Nepalese Student Association, University of Kentucky. | 2013-2015 |

LANGUAGES

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

PROFESSIONAL MEMBERSHIPS

Member, Soil and Water Conservation Society (SWCS)
 Member, Society of American Foresters (SAF)
 International Association of Landscape Ecology (IALE-North America)
 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, Himalayan Conservation & Research Institute, Nepal
 Member and Founder, Rural Educational Social and Environmental Conservation Team, Dolpa Nepal
 Member, Akasha Academy, Nepal
 Member, Snow Leopard Network

PEER REVIEWER

Small Scale Forestry|Journal of Forestry|Land Use Policy |Human Ecology
 |Climate|Environment Development and Sustainability |Ethnobotany Research & Applications
 |Nepal Journal of Environmental Science (Nep J Environ Sci)|River Research and Application
 |The Initiation|People and Nature|Canadian Journal of Forest Research|Mitigation and
 Adaptation Strategies for Global Change |Sustainable Water Resources Management |LAND|
 Frontiers in Sustainable Food Systems |World |Current Research in Environmental
 Sustainability|Plos One |Sustainability

PROFESSIONAL SKILLS AND SOFTWARE

ArcGIS, IDRISI, ERDAS Imagine, TerrSet, Google Earth Engine, FRAGSTATS, SiMS,
 INVEST, Land Change Modeller, R, JMP, SPSS, SAS, @RISK

GPS, Compass, Map Reading
Microsoft Excel, Word, PowerPoint, Outlook

PROFESSIONAL REFEREES

Dr. Lisa A. Schulte Moore (Post-doc co-supervisor)

Professor

Natural Resource Ecology and Management

Iowa State University

2310 Pammel Dr, Sciences II, Ames, IA 50011

Tel: 515-294-7339

Email: lschulte@iastate.edu

Dr. J. Gordon Arbuckle Jr. (Post-doc co-supervisor)

Professor

Department of Sociology

Iowa State University

510 Farm House Ln.

Ames, IA 50011

Tel: 515-294-1497

Email: arbuckle@iastate.edu

Dr. Puneet Dwivedi (Ph.D. Advisor)

Associate Professor (Sustainability Sciences)

Warnell School of Forestry and Natural Resources

University of Georgia

180 E Green Street, Athens, GA 30602

Tel: 706-542-2406

Email: puneetd@uga.edu