

**Surendra Shrestha**

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**RESEARCH INTERESTS**

- Hydrologic process modeling
- Land cover change and disturbances impacts on terrestrial ecosystem
- Land-Atmosphere interaction

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**EDUCATION**

**Ph.D., Geography.** Graduate School of Geography, Clark University, Worcester, Massachusetts, Aug 2017 (On going). Current GPA: 4.20 (Out of 4).

**MS, Forest Resources.** Daniel B. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia, Aug 2014 - May 2016. GPA: 3.86 (Out of 4).

**Bachelor of Science, Forestry.** Institute of Forestry, Tribhuvan University, Nepal, 2005 – 2009. GPA: 76.6% (Out of 100), Distinction.

**Intermediate of Science, Forestry.** Institute of Forestry, Tribhuvan University, Nepal, 2002 – 2004. GPA: 75.6% (Out of 100), Distinction.

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**RESEARCH EXPERIENCE**

**Research Assistant.** Graduate School of Geography, Clark University, Fall 2017.

**Research Assistant.** Warnell School of Forestry and Natural Resources, University of Georgia, 2014 – 2016. (Full two-year research assistantship funded through Daniel B. Warnell School of Forestry and Natural Resources).

Thesis title: *Impact of Wood Pellet Production on Water Availability: A Case Study from Northeast Oconee River Basin in Georgia.*

**Principal Investigator.** B.SC (Forestry), Institute of Forestry, Nepal, 2009.

Thesis title: *Status of forest Condition and Diversity of Plants in a Western Mid-Hills Community Forest (CF) - A case study from Puranchaur VDC of Kaski district, Nepal. (A thesis submitted for the partial fulfillment for the requirement of the Bachelor Degree of Science in Forestry).*

## **TEACHING EXPERIENCE**

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**Teaching Assistant.** Graduate School of Geography, Clark University. TA for Terrestrial Ecosystem and Global Change. Spring 2018.

**Teaching Assistant.** University of Georgia, Athens. TA for an undergraduate Geographic Information System (GIS) course. Spring 2016.

**Teaching Assistant.** University of Georgia, Athens. TA for an undergraduate Geographic Information System (GIS) course. Spring 2015.

**Volunteer Teacher.** Self-Help Environmental Awareness Camp, Pokhara, Nepal 2006-2009. Taught environmental education to students at different schools at Pokhara, Nepal.

## **SERVICE & OUTREACH**

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**Research/Teaching Assistant,** Clark University, Graduate School of Geography, 2017 - ongoing.

**Research Assistant,** Lincoln University, September 2016 – May 2017.

**Research/Teaching Assistant,** University of Georgia, Daniel B. Warnell School of Forestry and Natural Resources, 2014-2016.

**Assistant Forest Officer,** Ministry of Forests and Soil Conservation, Government of Nepal, 2010 to present.

**Crew Leader,** Forest Resource Assessment Project, Nepal (FRA-Nepal), 2012-2014.

**Secretary,** Shelf-Help Environmental Awareness Camp, 2008-2009.

## **AWARDS & GRANTS**

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**Partial Scholarship** for 2 years in I.Sc. (Forestry), Institute of Forestry, 2002-2004.

**Batuk Memorial Award** as a Nepal Topper in Intermediate of Science (Forestry), Nepalese Foresters' Association, 2005

**Partial Scholarship** for 8 semesters in B.Sc. in Forestry, Institute of Forestry, 2005-2009.

**Outstanding student,** Bachelor of Science in Forestry, 1<sup>st</sup> Year. Tribhuvan University, □2006.

**Small-scale Research Grant,** MemCoE, \$200, 2009.

**Fadindra Memorial Award** as Kaski District Topper in Bachelor of Science (Forestry), Free Students' Union, Prithivi Narayan Campus, 2010.

**Shreepati Memorial Award** as Kaski District Topper in Bachelor of Science (Forestry), Shreepati Koirala Guthi, 2010.

**Sussman Fellowship**, Edna-Bailey Sussman Foundation, \$6775, 2018 (Summer).

**Harvard Design and Co. Fund Enhancement Award**, Clark University, \$3500, 2018(Summer).

## **SKILLS**

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- MS Word, Excel, PowerPoint,
- ArcMAP 10.3, Erdas Imagine, LICOR 6400, SWAT, SWAT-CUP 2012, JMP, R, TerrSet

## **PUBLICATIONS**

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**Shrestha, S.**, Dwivedi, P. 2017. Projecting Land Use Changes by Integrating Site Suitability Analysis with Historic Land Use Change Dynamics in the Context of Increasing Demand for Wood Pellets in the Southern United States. *Forests*, 8 (10), 381.

**Shrestha, S.**, Dwivedi, P., McKay, K., & Radcliffe, D. 2018. Hydrological Impacts of Changing Land Use and Climate in the Context of Rising Exports of Wood Pellets: A Case Study from the Oconee River Basin in Georgia. (submitted to Biomass & Bioenergy).

Subedi, M. R., Oli, B. N., & **Shrestha, S.** 2018. Height-Diameter Modeling of *Cinnamomum tamala* Grown in Natural Forest in Mid-hills of Nepal. (Submitted to Journal of Forestry Research).

## **PRESENTATIONS**

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**Shrestha S.** Forest Management Regimes in Nepal. *Forest Inventory and Planning Institute (FIPI)*, Vietnam.

**Shrestha S**, Dwivedi P. Bioenergy-Land Use Change-Water Nexus: A Case Study from Upper North Oconee River Basin in Georgia. Poster session presented at: 10th Southern Forestry and Natural Resource Management GIS Conference; 2015 December 7-8; Athens, GA.

**Shrestha S**, Dwivedi P. Impact of Wood Pellet Production on Local Water Availability: A Case Study from Upper North Oconee River Basin in Georgia. Poster session presented at: Warnell Graduate Student Association Symposium; 2016 January 20-22; Athens, GA.

**Shrestha S**, Dwivedi P. Impact of Wood Pellet Production on Surface Hydrology (Evapotranspiration, Ground Water, and Runoff): A Case Study from Northeast Oconee River Basin in Georgia. Poster Session presented at: 2016 Meeting of the International Society of Forest Resource Economics; 2016 April 3-5; Raleigh, North Carolina.

**Shrestha S**, Dwivedi P. Impact of Wood Pellet Production on Surface Hydrology (Evapotranspiration, Ground Water, and Runoff): A Case Study from Northeast Oconee River Basin in Georgia. Oral presentation presented at: 2016 Meeting of the International Society of Forest Resource Economics; 2016 April 3-5; Raleigh, North Carolina.

Dwivedi P, **Shrestha S**. Assessing Nexus of Emerging Wood Pellets Markets, Land Use Change, and Changing Climate on Water Availability. Oral presentation presented at: SAF 2016 National Convention; 2016 November 2-6; Madison, Wisconsin.

## **PROFESSIONAL ASSOCIATIONS**

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**Life Member**, Nepal Foresters' Association, 2011.

**Vice-President**, Nepal Civil Service Employees' Association's departmental committee, Ministry of Forests and Soil Conservation, Government of Nepal, 2012.

**Member**, Democratic Foresters' Association of Nepal, 2010.

**Member**, Green Governance Nepal, 2010.

**Member**, Self-Help Environmental Awareness Camp, 2002.

## **REFERENCES**

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### **Christopher A. Williams**

Associate Professor

Graduate School of Geography

Clark University

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### **Puneet Dwivedi**

Assistant Professor (Sustainability Sciences)

University of Georgia

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