

AVISHESH NEUPANE

Department of Biosystems Engineering & Soil Science
The University of Tennessee
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EDUCATION

- Ph.D.** *Geography*, University of California, Los Angeles 2019
Dissertation: “Assessing biotic and abiotic controls of carbon storage in soil.”
- M.E.Sc.** *Environmental Science*, Yale School of Forestry & Environmental Studies 2014
Thesis: “Effects of eastern subterranean termites (*Reticulitermes flavipes*) on properties of a temperate forest soil”
- M.Sc.** *Environmental Science*, Tribhuvan University, Nepal 2006
Thesis: “Spatial and temporal variations in ground level ozone in Kathmandu Valley, Nepal and estimation of its health impacts”
- B.Sc.** *Environmental Science*, Tribhuvan University, Nepal 2002

RESEARCH EXPERIENCE

Postdoctoral Research Associate: University of Tennessee, Dept of Biosystems Eng. & Soil Science	Oct 2019
Apprentice Forester: Yale School Forests	May-Aug 2014
Graduate Research Assistant: Yale University, Bradford Lab	May-Aug 2014
Swale Research Intern: Hixon Center of Urban Ecology, New Haven, CT	May-Aug 2013
Environmental Officer: Poverty Alleviation Fund (PAF), Nepal	Jan 2009-Aug 2012
Environmental Officer and Lab Manager: Melamchi Water Supply Project, Nepal	Apr-Dec 2008
Environmental Officer: SILT Consultants Pvt. Ltd., Nepal	Mar 2006-Apr 2008
Research Assistant: Arnico K Panday, Massachusetts Institute of Technology, USA	Dec 2004-Jun 2005

TEACHING EXPERIENCE

Teaching Assistant: Served as a teaching assistant for 9 quarters at UCLA and 1 semester at Yale Forestry and Environmental Studies between Fall 2013 and Spring 2018 for the following courses:

Earth's Physical Environment, People & Earth's Ecosystems, Biodiversity in Changing World, Soils in the Environment, Introduction to Statistics in Environmental Sciences

PUBLICATIONS

Cusack, D.F., Ashdown, D., Dietterich, L.H., **Neupane, A.**, Ciochina, M., Turner, B.L., 2019. Seasonal change in soil respiration linked to soil moisture and phosphorus availability along a tropical rainfall gradient. *Biogeochemistry*. <https://doi.org/10.1007/s10533-019-00602-4>

Cusack, D.F., Karpman, J., Ashdown, D., Cao, Q., Ciochina, M., Halterman, S., Lydon, S., and **Neupane, A.**, 2016. Global change effects on humid tropical forests: Evidence for biogeochemical and biodiversity shifts at an ecosystem scale. *Rev. Geophys.* 54, 2015RG000510.

Neupane, A., Maynard, D.S., and Bradford, M. A., 2015. Consistent effects of eastern subterranean termites (*Reticulitermes flavipes*) on properties of a temperate forest soil. *Soil Biology and Biochemistry* 91, 84–91. doi:10.1016/j.soilbio.2015.08.025

Shrestha R. B. and **Neupane A.**, 2011, Upland poverty: examining causes, identifying solutions, a policy research paper on upland poverty and climate change on *VIKAS*, A Journal of Development, February 2011, National Planning Commission, Nepal

GRANTS & AWARDS

- Dissertation Year Fellowship, UCLA, 2018-19
- Jornada LTER Summer Fellowship, 2017
- Helin Research Travel Grant, UCLA, 2017
- Geography Research Travel Grant, UCLA, 2015
- Dean's Scholar Award, UCLA, 2014-15
- Carpenter Sperry Award, Yale School of Forestry and Environmental Studies, 2013
- Yale School of Forestry and Environmental Studies Summer Research Grant 2013
- Yale School of Forestry and Environmental Studies Scholarship for 2012-14

PRESENTATIONS

Invited Talks, Seminars, and Workshop Contributions

Neupane, A., Okin G. S., Effect of a decadal term grass cover reduction on soil carbon in a desert grassland of Southern New Mexico. Jornada LTER Desert Ecology Short-Course Desert Ecology Short-Course: Las Cruces July 11, 2017.

Neupane, A., Cusack, D.F., Effects of warming on the fate of carbon across a Hawaiian soil mineralogical gradient. Institute of Pacific Islands Forestry, Hilo Hi, July June 26, 2017

Contributed Oral Presentations

Neupane, A., Vitousek, P. M., Hockaday W.C. and Cusack, D.F., Ecological Society of America, Meeting 2019, Fate of newly added organic carbon substrates in soils along a Hawaiian mineralogical soil gradient, August 11-16, Louisville, Kentucky

Neupane, A., Vitousek, P. M. and Cusack, D.F., Ecological Society of America, Meeting 2018, Effects of warming on the fate of newly added carbon across a Hawaiian soil mineralogical gradient, August 5-10, New Orleans, Louisiana

Cusack, D.F., Ashdown, D, Ciochina, M., Dietterich, L., H., Karpman, J., **Neupane, A.** and Turner, B.L., Seasonal patterns in soil carbon dioxide fluxes across a tropical forest rainfall gradient, Ecological Society of America, Meeting 2018, August 5-10, New Orleans Louisiana

Dietterich, L., **Neupane, A.**, Ciochina, M., Hess, N. J, Tfaily, M. M. and Cusack, D.F., (Ecological Society of America, Meeting 2018, Root exudate responses to drying and mycorrhizal colonization for two tropical, tree seedlings, August 5-10, New Orleans Louisiana

Neupane, A., Cusack, D.F., A study of Carbon stabilization at different temperatures along a mineralogical soil gradient using a soil incubation experiment, Hawaii Ecosystems Meeting, July 2016, Hilo, Hawaii.

Neupane, A., Sapkota, B.K., 2007, Spatial and seasonal variations in ground-level ozone concentrations in Kathmandu valley, Nepal and estimation of its health impact at National Conference on Environment, Kathmandu Nepal, June 22-24, 2007.

Poster Presentations

Neupane, A., Cusack, D.F., 2017, Effects of warming on the fate of carbon across a Hawaiian soil mineralogical gradient. The Association of Pacific Coast Geographers Conference, October 25-28, 2017 CSU, Chico.

Neupane, A., Cusack, D.F., Effects of warming on the fate of carbon across a Hawaiian soil mineralogical gradient. AGU Fall 2016 Meeting, December 12-16 December, in San Francisco, California Thursday, 15 December 2016

REVIEWER

Archives of Agronomy and Soil Science	2016-2018
Plos One	2017-2018
Insects	2017-2018