Nishan Bhattarai

2004 Dana Building, 440 Church St, Ann Arbor, MI 48103
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CURRENT POSITION

University of Michigan, **Ann Arbor, MI**
Research Fellow, School of Natural Resources and Environment (Fall 2016 -)
Advisor: Dr. Meha Jain

EDUCATION

Tufts University, Medford, MA
Center for International Environment and Resource Policy at The Fletcher School of Law & Diplomacy
Postdoctoral Research Fellow, 2016
Advisor: Dr. Avery Cohn

SUNY College of Environmental Science & Forestry (SUNY-ESF), Syracuse, NY
Department of Environmental Resources Engineering
Ph.D. Environmental Resources Engineering, 2015
Advisor: Dr. Lindi J. Quackenbush

Auburn University, Auburn, AL
Department of Biosystems Engineering and School of Forestry and Wildlife Sciences
M.S. Forestry, 2010
Advisors: Dr. Mark Dougherty and Dr. Latif Kalin

Tribhuvan University, Nepal
B.S. Forestry, 2006

PUBLISHED WORKS

Referred

Richards, P. Arima, E., VanWey, L, Cohn, A., & **Bhattarai, N.** 2016. Are Brazil's Deforesters Avoiding Detection? *Conservation Letters* [Link]

Bhattarai, N., Shaw, S. B., Quackenbush, L. J., Im, J., & Niraula, R. 2016. Evaluating five remote sensing-based single-source surface energy balance models for estimating daily evapotranspiration rates in a humid subtropical climate. *International Journal of Applied Earth Observation and Geoinformation* 49: 75-86 [Link]

Bhattarai, N., Quackenbush, L.J., Dougherty, M., & Marzen, L. 2015. A simple Landsat–MODIS fusion approach for monitoring seasonal evapotranspiration at 30 m spatial resolution. *International Journal of Remote Sensing* 36: 115-143. [Link]

Shaw, Stephen B., Marrs, J., **Bhattarai, N.**, & Quackenbush, L.J. 2014. Longitudinal Study of the Impacts of Land Cover Change on Hydrologic Response in Four Mesoscale Watersheds in New York State, USA. *Journal of Hydrology* 519: 12-22. [Link]

Bhattarai, N., Dougherty, M., Marzen, L., & Kailn, L. 2012.Validation of evaporation estimates from a modified surface energy balance algorithms for land model in the south-eastern US. *Remote sensing letters* 3: 511-519. [Link]

Non-referred

Bhattarai, N. 2015. Single-source surface energy balance algorithms to estimate evapotranspiration from satellite-based remotely sensed data, PhD Dissertation, SUNY-ESF.

Bhattarai, N., Quackenbush L.J., Jungho, Im, and Shaw, S. B Automation of Endmember Pixel Selection in SEBAL/METRIC Model. AGU Fall meetings Abstracts, December 14-18, 2015, San Francisco, CA.

Bhattarai, N., Quackenbush L.J., & Shaw, S. B. 2014. Comparison of four single-source surface energy balance-based models for estimating remotely sensed daily ET. Abstracts from the ASABE 2014 International Symposium on ET. April 7-11, 2014, Raleigh, NC.

Bhattarai, N. & Quackenbush, L.J. 2013. A data fusion approach for monitoring remotely sensed seasonal ET. AGU Fall meetings Abstracts, December 9-13, 2013, San Francisco, CA.

Bhattarai, N., Quackenbush, L.J., Calandra, L., Im, J., & Teale, S. 2012. An automated object-based approach to detect Sirex-infestation in pines. Proceedings of American Society for Photogrammetry and Remote Sensing (ASPRS) 2012 Annual conference, March 19-23, Sacramento, CA.

Bhattarai, N., Quackenbush, L.J., Calandra, L., Im, J., & Teale, S. 2011. Spectral analysis of Scotch pine infested by Sirex Noctillo. Proceedings of ASPRS 2011 Annual conference, May 1-5, 2011, Milwaukee, WI.

Bhattarai, N. 2010. Use of Remotely Sensed Data to Quantify Plant Water Use from Irrigated Lands in Wolf Bay Watershed Area, MS Thesis, Auburn University.

EXPERIENCE

Research Affiliate, Tufts University, Medford, MA	Sep 2016-
Postdoctoral Research Fellow, Tufts University, Medford, MA	Aug 2015- Sep 2016
STEM Mentor, Research Foundation for the SUNY, Syracuse, NY	Jan 2015 – May 2015
Research Project Assistant, Research Foundation for the SUNY, Syracuse, NY	Sep – Dec 2014
Research/Field Tech, University of Illinois, Urbana-Champaign, IL	Jun – Aug 2014
Graduate Assistant, SUNY-ESF, Syracuse, NY	Aug 2011 – May 2014
Conservation Science Intern, World Wildlife Fund for Nature, Washington, DC	Jun – Aug 2013
Research Aide, Research Foundation for the SUNY, Syracuse, NY	May – Aug 2012
Research Project Assistant, Research Foundation for the SUNY, Syracuse, NY	Aug 2010 – Aug 2011
Research Assistant, Biosystems Engineering, Auburn University, AL	Aug 2008 – Aug 2010
International Corps Member, EarthCorps, Seattle, WA	Jun – Dec 2007

AWARDS AND HONORS

- ERE Departmental Award for Academic Excellence (2014), SUNY-ESF, $1,000
- AGU Student travel award (2013), American Geophysical Union (AGU), $500
- CNY Graduate Student of the year (2013), ASPRS, $500
- Ta Liang Memorial Award (2013), ASPRS, $2,000
- RvD Idea Awards (Raymond Von Dran Fund) (2012), Syracuse University, $2,000
- Research in Need travel grant (2012), GSA, SUNY-ESF, $250
- ConForM/Danida fellowship for undergraduate research, 2006, Tribhuvan University

PEER REVIEWER

International Journal of Remote Sensing, Hydrological Processes, Remote Sensing, IEEE-JSTARS , Stochastic Environmental Research and Risk Assessment, GIScience & Remote Sensing, Water

COMPUTER SKILLS

- ***Programming Languages*:** Mostly use R, MATLAB, and SSH Client; Good knowledge of Python, JavaScript API, Google Earth Engine.
- ***GIS and Remote Sensing tools*:** ArcGIS, QGIS, ENVI, and ERDAS IMAGINE
- ***Software Packages:*** AutoCAD, HEC-HMS, SAS, SPSS, C/C++, Visual Basic, SigmaPlot, SQL Server, Photoshop, Office.