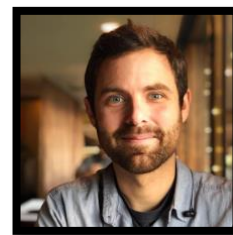


James Lamping



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EDUCATION

University of Oregon

PhD student, Department of Geography

Humboldt State University

M.S. Forestry, Watershed & Wildland Science **GPA 3.89**

Humboldt State University (Undergraduate)

B.S. Forestry emphasis Soils, Spring 201 **GPA 3.82**

San Diego Community College

Attended Aug 2014 - Jun 2014

RELEVANT COURSEWORK

Forest Ecology

Natural Resource Conservation

Calculus for the Biological Sciences

Intro to Remote Sensing

Geospatial Concepts

Dendrology

Forest Measurements & Biometry

Mobile Mapping

Advanced Geospatial Programming

Introduction to Soil Science

Forest Health and Protection

Forest Mensuration & Growth

Silviculture

Geographic Information Science

Origins & Classifications Soils

Forest & Range Soils

Forest Administration

Intermediate Remote Sensing

RELEVANT EXPERIENCE

FAA UAS Pilot

— License #: 4091970

Projects include planned flights to collect images over forested plots in Teakettle Experimental Forest and Humboldt County for use in building 3D models of forested landscapes.

Total Flight Hours: >180 hours

Graduate Student

— Humboldt State University (Fall 2019 to Present)

— Research advisor: Dr. Harold Zald

Current research includes creating new methods for collecting 3D structural forest metrics and vegetation monitoring using UAVs, Structure from Motion (SfM), Lidar and RTK GPS.

Undergraduate Research Technician

— Teakettle Experimental Watershed (Summer 2017, 2018, and 2019)

Collecting, mounting and preparing tree cores for data input and isotopic analysis, using survey grade GPS unit to accurately record locations of plot grid points and reference markers to use in sUAS georeferencing, conducting pre-programmed flights using sUAS to create 3-D models of

plots using structure-from-motion and collecting data on regeneration. Data collected and analyzed will help determine the effects of prescribed fire and tree thinning on forests.

NEON Data Institute

— Megan Jones, National Ecological Observatory Network (July 2018)

Through data intensive live-coding, short presentations, and small group work, covered topics included:

Background theoretical concepts related to LiDAR and hyperspectral remote sensing, fundamental concepts required to ingest, visualize, process, and analyze NEON hyperspectral and LiDAR data, best practices on reproducible research workflows: the importance of documentation, organization, version control, and automation, Scientific spatio-temporal applications of remote sensing data using open-source tools, namely Python and Jupyter Notebooks, machine learning for prediction of biophysical variables such as above-ground biomass using NEON LiDAR and ground measurements, classification of hyperspectral data using deep-learning approaches, using remote sensing data products with in situ data to quantify uncertainty associated with remote sensing observations.

Research Assistant

— Harold Zald, Humboldt State University, Forest Ecology Lab (December 2016 - Present)

Myself and another undergraduate student conducted a tree census for Humboldt State University in order to estimate the amount of carbon sequestered by HSU property. This included basic tree measurements, biomass estimates using RStudio, and GIS analysis. A poster from this project was entered into HSUs 2018 IdeaFest. The lab also processes and analyzes tree cores using WinDENDRO and Velmex.

Tower Point Fire Lookout

— Jake Akerburg, Oregon Bureau of Land Management [GS-04] (May 2016 - Aug 2016)

Located and reported forest fires and weather phenomena from remote fire-lookout station: Maintains surveillance to detect evidence of fires and observe weather conditions. Locates fires on area map, using azimuth sighter and known landmarks, estimates size and characteristics of fire, and reported findings to base camp by radio or telephone. Observes instruments and reports daily meteorological data, such as temperature, relative humidity, wind direction and velocity, and type of cloud formations. Relays messages from base camp, mobile units, and law enforcement and governmental agencies relating to weather forecasts, fire hazard conditions, emergencies, accidents, and location of crews and personnel. Maintained records and logbooks.

PUBLICATIONS/ POSTERS

- Lamping, J.E., Zald, H.S.J., Madurapperuma, B.D., Graham, J., 2021. Comparison of Low-Cost Commercial Unpiloted Digital Aerial Photogrammetry to Airborne Laser Scanning across Multiple Forest Types in California, USA. *Remote Sens.* 13, 4292. <https://doi.org/10.3390/rs13214292>
- Madurapperuma B, Lamping J, McDermott M, Murphy B, McFarland J, Deyoung K, Smith C, MacAdam S, Monroe S, Corro L, Magstadt S, Dellysse J, Mitchell S. Factors Influencing Movement of the Manila Dunes and Its Impact on Establishing Non-Native Species. *Remote Sensing.* 2020; 12(10):1536.
- Madurapperuma B, Close P, Fleming S, Collin M, Thuresson K, Lamping J, Dellysse J, Cortenbach J. Habitat Mapping of Ma-le'l Dunes Coupling with UAV and NAIP Imagery. *Proceedings.* 2018; 2(7):368.

EMPLOYMENT HISTORY

Graduate Researcher – Humboldt State University, June 2019 - Present

HSU VETS Outreach Coordinator – Humboldt State University, August 2016 - Present

Research Assistant – Teakettle Experimental Watershed, May 2017 - August 2018

Fire Technician – United States Navy, June 2008 - June 2014

**VOLUNTEER
EXPERIENCE**

Student Veterans Association

— President (Fall 2017-Present); Member (Fall 2015- Present)

The goal of SVA at HSUs is to raise awareness of the presence of military veterans and dependent students on campus. We also want to provide a positive community of support for military veterans and dependents enrolled at Humboldt State University while also providing student the resources needed to succeed in higher education

American Legion

— Member (Fall 2017- Present)

The American Legion is a nonpartisan, not-for-profit organization with great political influence perpetuated by its grass-roots involvement in the legislation process from local districts to Capitol Hill. Legionnaires' sense of obligation to community, state and nation drives an honest advocacy for veterans in Washington. The Legion stands behind the issues most important to the nation's veterans community, backed by resolutions passed by volunteer leadership.

**AWARDS/
HONORS**

Magna Cum Laude (2019)

Dillard Bailey Graduate Scholarship (2019-2020)

C.A.M.B.I.O Scholarship (2018-2019)

Dillard Bailey Scholarship (2016-2017)

Jerry Partain Scholarship (2018-2019)

Dean's List (Fall 2015, Spring 2018)