Whitney K. Newcomb

1139 12th St. #7 Arcata, CA 95521   (760) 819-2680   WhitneyKNewcomb@gmail.com

Education:

B.S. Environmental Science with a concentration in **Geospatial Analysis**   May 2017
Humboldt State University (HSU), Arcata CA   GPA: 3.89
Pertinent Coursework:

Advanced GIS	Advanced Cartographic Design	General Botany
Geospatial Programming	Environmental Impact Assessment	Intro to Soil Sciences
Intermediate Remote Sensing	Intro to Environmental Policy	Physical Geography
Mobile Mapping	Wildland Resource Principles	Earth Resources and Global Environmental Change

Work Experience:

GIS Assistant (Internship)   December 2016 – May 2017
City of Eureka Planning Department   Eureka, CA
Provided GIS technical support for determining Eureka's potential infill of vacant residential and commercial lots within the city. Used Sketch Up to create potential site plans for vacant lots. Analyzed land and improvement values with housing price trends to find underutilized parcels for the city's updated General Plan. Met weekly with City Planner to asses work and determine goals.

Geospatial Tutor (Instructional Student Assistant)   August 2016 – May 2017
HSU's Natural Resources Department   Arcata, CA
Assisted students during scheduled open lab times in the GIS/remote sensing labs with various geospatial course work that included GIS lab assignments and projects, remote sensing lab assignments and projects, python geospatial programming, geospatial web development, and mobile mapping techniques. Provided problem-solving techniques to students requesting help.

GIS Data Manager (Internship)   Summer 2016
HSU's River Institute   Arcata, CA
Managed and maintained database for graduate level project on salmonids of the Eel River, met weekly with supervisor to evaluate and determine goals, created informational maps.

Bio-Statistics and Bio-Calculus Grader (Instructional Student Assistant)   January 2015 – May 2017
HSU's Mathematics Department   Arcata, CA
Read and evaluated student lab and homework assignments and recorded scores and maintained student grades in online learning modules and met with the professors as needed to specify grading duties. Bio-statistics and bio-calculus.

Intern Biologist (Internship)   Summer 2014 & 2015
Ultrasystems Environmental Inc.   Irvine, CA
Responsibilities included: organization, editing, and creation of databases for project descriptions, acted as a receptionist, involved in staff meetings, ordered, restocked, and organized office supplies, and managed employee time sheets. Gained rudimentary knowledge of CEQA and NEPA compliance. Assisted with the creation and delivery of proposals, assisted archaeologists, biologists, GIS analysists, and engineers to complete tasks.

GIS Research Experience:

- "Sea Level Rise and Inundation Mapping Analysis of Highway 101 around Humboldt Bay" Academic Paper for Environmental Science Capstone Course, 2017.
- "Mapping Bark Beetle Infestation in the Rocky Mountain National Park from 2014-2016", Academic Paper for Intermediate Remote Sensing Course Final Project, 2016.
- "Vegetation Mapping of the Ma-le'l Dunes", Academic Paper for Mobile Mapping Final Project, 2016.

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- "Land Cover Change in Coachella Valley, California over the Last 20 Years" Academic Paper for Introduction to Remote Sensing Course Final Project, 2015.
- "Preparation of High Spatial and Temporal Resolution Data from UAS Sources for GIS Applications" Academic Paper and Poster Presentation for Intermediate GIS Course Project, 2015.
- "Marbled Murrelets Habitat Study of Humboldt County" Academic Paper for Introduction to GIS Course Final Project, 2014.

Skills and Abilities:

Software Experience:

    ArcMap 10.2, 10.4, 10.5 (3 years), ArcGIS Online, Arc Collector, ArcScene, QGIS, ENVI

    Microsoft Office Suite (Word, PowerPoint, Excel), Adobe Acrobat, Dreamweaver, Illustrator, Photoshop

    Google Products (Google Earth Pro, Sketch Up Pro, Docs, Sheets, Slides, Drive)

    Trimble TeraSync, GSP Pathfinder Office, Garmin Express, Mission Planner

Hardware Experience:

    GPS Devices: Trimble, Garmin

    Total Station, Auto Level, Hand Level

    PC/MAC

Programming experience:

    Python (1.5 year)

    HTML5, JavaScript, CSS (1.5 year)

    Leaflet (1 year)

    R (6 months)

Other:

    Cartographic design for print and web*

    QAQC procedures

    UAV (or drone) data collection

    Large event planning

    Valid California Driver's License

Qualities:

    Strong team player

    Independent worker

    Verbal and written communication

    Excellent organization skills

    Critical thinking/problem solving

    Strong time management

    Adaptive

    Troubleshooting ability

    High initiative/ self-motivated

    Strong attention to detail

    Multitasking

Extracurricular:

HSU Geospatial Club	2014 – 2017		HSU Geographic Society	2016 – 2017

    Offices held: Vice President and Secretary

    Took minutes at all club meetings

    Planned and implemented GIS Day 2015 & 2016

    Tutored drop in homework help sessions

    Planned trail mapping and Geocaching events

HSU Cartography Club	2016 – 2017
Conservation Unlimited	2015 – 2017

Awards and Honors:

Outstanding Student Award for Geospatial Analysis Option	May 2017
Champion of the Environment	May 2017
Presidential Scholar	Fall 2013, Spring 2015, Fall 2015, Spring 2016, Fall 2017, Spring 2017
CSU Future Scholarship	April 2014
Academic Honors Award and Leadership Award	June 2013

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References:

James Graham, PhD	Betsy Lindsay	Brian Heaton
Environmental Science and Mgmt Dep't	President/CEO	Associate Planner
Humboldt State University	Ultrasystems Environmental Inc.	City of Eureka Planning Division
Arcata, CA 95521	Irvine, CA 92618	Eureka, CA 95501
(707) 826-3823	(949) 274-3935	(707) 268-5265
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* For examples of my cartography please visit my portfolio website at
https://wnewcomb.github.io/MyPortfolio/index.html