**Professional Summary:**

Graduating senior with two years of experience in undergraduate biological and ecological field research. Demonstrating expertise in plant identification, pollination studies, mapping, experimental design, and botanical peer tutoring. Seeking employment opportunities in the field of tropical biology, climate change monitoring, or environmental science before applying to graduate school.

**Relevant Experience:**

**Herbarium Technician** ● University of North Carolina, Asheville, NC ● January 2015- Current

Annotation, digitization, curation, identification, and addition to SERNEC of the UNCA herbarium collection.

**Herbarium Volunteer** ● Las Cruces Biological Station (OTS), Costa Rica ● December 2014- January 2015

Organization for Tropical Research: mounting herbarium specimens, organization, attention to detail when working with rare plant specimens, working in an international and multilingual research environment, field identification and data recording of potentially hybridizing Phytelephas (Tagua palm).

**Botany Lab Assistant &Tutor** ● University of North Carolina, Asheville, NC ● Fall 2015

Assisted Professor Mary Shultz in Botany 211 Lab. I worked as a teaching assistant for Professor Mary Shultz, assisting students in the class, answering questions during lab, helping with lab projects and student research, holding after hours tutoring sessions.

**Research Experience:**

**Undergraduate Research** ● University of North Carolina, Asheville, NC ● March 2014 – Spring 2016

Two years of research assistantship on; Panax quinquefolius (American ginseng) for studies involving population demographics, ginsenoside concentrations, and sequencing; invasive species control and invasion research; data retrieval and entry, experimental design, soil mapping, forest vegetation sampling, PCR, rare plant conservation, trail-blazing, mountaineering, organization, working long days alongside other scientists in the field under strenuous conditions.

*A link to an article about our invasive species research at UNCA:*

<http://news.unca.edu/features/homegrown-research>

**Undergraduate Research** ● University of North Carolina, Asheville, NC ● January 2015– Current

Testing fungal pathogen resistance in chemotypes of American Ginseng, Grant writing, project budgeting; Ginseng propagation and care, fungal culture isolation and identification from wild habitats; developed inoculation procedures congruent with experimental design. Results contingent on future HPLC data.

**Undergraduate Field Research** ● University of North Carolina, Asheville, NC ● May 2015- October 2015

Established pollinator interaction studies, dendrology response to invasive species research, tree coring, GIS mapping of *Panax quinqefloius* populations, plot installation.

**Undergraduate Lab Research** ● University of North Carolina, Asheville NC ● June 2015 – August 2015

Developing HPLC protocols for ginsenoside analysis, HPLC troubleshooting, preparing dilution standards for the development of standard curves, HPLC chromatogram analysis.

**Presentations:**

**Pollinator Study Presentation** ● University of North Carolina, Asheville, NC ● Oct 2015

Research focused on promoting the use of native horticultural varieties, which may promote increases in pollinator density and diversity in artificial landscape design.

*Link to the poster*:

<https://docs.google.com/presentation/d/19r2z7JEzP0icR9PpW3G628zpGAFUCe7wcpg9yGtiGM/edit?ts=560b1faf#slide=id.gbd27b63d0_0_0>

**National Conference of Undergraduate Research** ● University of North Carolina, Asheville, NC ● Spring 2016

Undergraduate research presentation of “Evaluating Pollinator Activity in a Native Plant Garden at the University of North Carolina Asheville.” This project addresses the influence of non-native plant cultivars on the abundance and sustainability of local native bees, and presents findings that can improve how horticultural and landscape industries interact with the environment.

*Link to abstract:*

<https://ncurdb.cur.org/ncur2016/search/Display_NCUR.aspx?id=95257>

**Education Background:**

**University of North Carolina at Asheville** Graduated May 2016

Bachelor of Science in Biology – Ecology and Evolutionary Biology

Research Scholar ● Active member of UNCA Biology Club

**Asheville-Buncombe Technical Community College**  Graduated Fall 2013

Associates in Science Degree

**Related Coursework:**

Lab Assistantship in Biology (BIO499) ● Biological Biochemistry (BIO444) ● Genetics (BIO443) ● Research Methods (BIO398): Five Semesters ● Mycology (BIO357) ● Plant Physiology (BIO 345) ●Tropical Ecosystems (BIO343) ● Flowering Plant Systematics (BIO335) ● Field Botany (BIO351) ● Principles of Botany (BIO211) ● Principles of Zoology (BIO210) ● Forest Ecosystems (BIO173) ● Introduction to Botany (BIO120) ● General Biology II (BIO 112) ● General Biology I (BIO111) ● World Regional Geography (GEO111) ● Weather and Climate (PHS140) ● Introductory Geology (GEL111) ● Organic Chemistry I (CHM251) ● General Chemistry 2 (CHM152) ● Spanish II (SPA182) ● Spanish I (SPA181) ● Excel Based Statistics (MAT151)

**Certifications:**

PADI Advanced Open Water Diver ● Daytona College CPR/First Aid Certification ● Red Cross O2 Provider Certification ● SDI Computer Nitrox Certification ● SDI Rescue Scuba Diver Certification

**References:**

Dr. Jen Rhode Ward – Current Research Supervisor / Plant Geneticist [jrward@unca.edu](file:///C:\Users\RLOPACs\AppData\Local\Temp\jrward@unca.edu)

Dr. David H. Clarke – Previous Research Supervisor / Plant Taxonomist [dclarke@unca.edu](mailto:dclarke@unca.edu)

**Earliest Start Date:** May 7th, 2016