

LILIANA K. RANGEL-PARRA

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EDUCATION

University of Washington, Seattle, WA Fall 2020 – Present

Master's student in the School of Environmental and Forest Sciences

Advisor: Dr. Brian J. Harvey

Appalachian State University, Boone, NC Spring 2020

B.S. with Honors in Ecological, Evolutionary, and Environmental Biology

Advisor: Dr. Howard S. Neufeld

RESEARCH EXPERIENCE

Honors Thesis Spring 2017 – Spring 2020

Appalachian State University, Department of Biology – Boone, NC

Dr. Howard S. Neufeld

- Researched plant physiology parameters of the holly, *Ilex x Nellie R. Stevens*, using gas exchange, water relations, fluorescence, and spectrophotometric chlorophyll analysis.
- Gained experience with LI-6400 and 6800 gas exchange systems, Handy PEA fluorometer, Scholander Pressure Chamber, and UV/VIS spectrophotometry instrumentation.
- Collaborated on multiple lab projects with other students in Neufeld lab.

Individual Research Project Spring 2019

Appalachian State University, Department of Biology – Boone, NC

Dr. Lynn Siefferman

- Researched community interaction effects on the egg dimorphism of the salamander, *Ambystoma maculatum* using freshwater night-light trapping

Research Intern for NSF Research Experience for Undergraduates Summer 2018

Marine Biological Laboratory – Woods Hole, MA

Dr. Loretta M. Roberson

- Designed an experiment to expose the coral, *Astrangia poculata*, to stressful conditions to better understand its symbiosis with its algae symbionts.
- Produced the first successful culture of its symbionts, *Breviolum psygmophilum*.
- Gained experience with Zeiss microscopy instrumentation.
- Acquired skills in aquaculture set-up and care.

Research Intern for Marine Conservation and Tropical Ecology Fall 2017

Universidad Veritas, BioMol – San José, Costa Rica

Dr. Sebastian Hernandez

- Collaborated in multiple marine conservation field and lab projects for sharks, sea turtles, and rays.
- Researched the field of phytotropy through the case of the *Ficus spp.*, strangling figs

ABSTRACTS AND PRESENTATIONS

Laying the groundwork: Drivers of post-fire early-seral plant community trajectories in western Cascadia. Liliana Rangel-Parra*, Madison Laughlin, Jenna Morris, Daniel Donato, Joshua Halofsky, and Brian Harvey.

Oral – *School of Environmental and Forest Sciences Graduate Student Seminar, 2022.* Seattle, Washington.

Poster – *Association for Fire Ecology: International Fire Ecology and Management Congress, 2021.* Virtual.

Rapid measurements of gas exchange in an evergreen angiosperm: Plant and gas exchange system responses to rapid environmental changes. Liliana Rangel-Parra*, Anthony Percival, Erica Pauer, Kathryn Young, Fernando Alejo-vann, and Howard Neufeld.

Poster – *Association of Southeastern Biologists, 2019.* Memphis, Tennessee.

Cold shocks induce asymbiotic colonies in *A. poculata*, an emerging coral model. Liliana Rangel-Parra*, Mayra Sánchez-Garcia, and Loretta Roberson.

Posters – *Association for the Sciences of Limnology and Oceanography: Aquatic Sciences, 2019.* San Juan, Puerto Rico. *Society for Advancement of Chicanos/Hispanics and Native Americans in STEM, 2018.* San Antonio, Texas. *Marine Biological Laboratory Undergraduate Symposium, 2018.* Woods Hole, Massachusetts.

Oral – *Biology Department Weekly Seminar, Appalachian State University, 2018.* Boone, North Carolina. *Astrangia Research Workshop, 2018.* Bristol, Rhode Island.

FELLOWSHIPS AND AWARDS

Gates Millennium Scholarship Recipient	2016 - 2029
GO-MAP Graduate Excellence Award	2020
Achievement Rewards for College Scientists	2020
Wayne Vandevender Award (for GPA: 4.0)	2020
Biology Department's Outstanding Senior	2020
Academic Excellence Scholarship Recipient	2016 - 2020
Appalachian State's Chancellor's List (for GPA of >3.85)	2016 - 2020
International Education Scholarship Recipient	2019
Office of Student Research Research Grant Recipient	2019
Office of Student Research Travel Grant Recipient	2019
Southern Appalachian Botanical Society Travel Grant Recipient	2019
T. Marvin Willamsen Study Abroad Scholarship Recipient	2017
Arthur R. Hill Memorial Scholarship Recipient	2016 - 2017

MEMBERSHIPS

- Association of Fire Ecology (AFE)
- Society for Advancement of Chicanos/Hispanics and Native Americans in STEM (SACNAS)

INTERNATIONAL EXPERIENCE

New Zealand and Australia – Faculty-Led Education Abroad **Summer 2019**

- Conducted biodiversity assessments over most of New Zealand's north and south islands, and Queensland, Australia, through the use of a variety of ecological field techniques.
- Researched the Daintree Rainforest (AU) and the Little Blue Penguin (NZ).

Costa Rica – Independent Study **Fall 2017**

- Studied Spanish, tropical ecology, ecological photography, and sustainable development.
- Interned in the *BioMol* molecular marine conservation lab.
- Worked with different local communities to aid in conservation efforts and permaculture development

UNIVERSITY SERVICE

Graduate Council Officer **Fall 2020 – Present**

University of Washington, School of Environmental and Forest Sciences

- Organized school-wide events: Grad Student Symposium, Town Hall, Grad Retreat, Mentorship Program.
- Communicated between graduate student body and faculty on a myriad of topics.

Undergraduate Research Assistant **Spring 2019**

Appalachian State University, Department of Biology

- Trained undergraduate students and aided in collaborative projects.
- Assisted Anthony Percival with field research on the American Chestnut at Mt. Jefferson State Natural Area.

LEAD Tutor **Spring 2016 – Spring 2019**

Appalachian State University, University Tutoring Services

- Tutored an introductory organic chemistry course of around 150 students.
- Provided lecture-styled sessions with weekly practice sets and individualized study sessions with extra practice sets and study material.
- Small-group and individual tutoring for genetics and introductory biology.

Student Manager **Fall 2016 – Spring 2019**

Appalachian State University, Food Services

- Worked at McAlister's Deli in both the front and back of house.

WORK EXPERIENCE

Assistant Grower **Spring 2019 – Summer 2020**

Old Globe Cultivation Company - Globe, NC

- Skilled in managing and maintaining multiple greenhouses for a large-scale industrial CBD and hemp farm.
- Collaborated in projects with NC State Specialty Crops and Organics, investigating technological and regional methods and practice for improving hemp cultivation.

Barista **Winter 2019 – Summer 2020**

Espresso News - Boone, NC

- Created craft coffee and tea drinks through multi-tasking under fast-paced environments, while still encouraging a relaxing, productive, and clean space.

Professional Cleaner **Spring 2016 – Spring 2018**

Employment by Rubisel Sanchez - Hendersonville, NC

- Professionally-detailed cleaning of the interior and exterior of private and public properties.
- Capable of general yard work, including gardening, mulching, weeding, and mowing.

Farmhand **Summer 2015 – Summer 2016**

Employment by Kari Fields - Fletcher, NC

- Aided in private farm management of over 100 animals and multiple large gardens.
- Provided pet-sitting, house-sitting, and baby-sitting services.
- Worked early morning shifts (4 am - 9 am) before school hours.

LEADERSHIP AND EXTRACURRICULARS

Vice-President **Fall 2018 – Spring 2019**

Secretary **Fall 2017 – Spring 2018**

Appalachian State Snowboard Team

- Managed a large sports team of sixty individuals, communicating between advisors, federations, ski resorts, and local businesses.
- Organized all team information, meetings, officer events, and stood as the main communicator liaison between all hierarchies.

Volunteer **Spring 2018 - present**

Watauga Humane Society

Member

Gardening Club

Spring 2018 – Summer 2020

Equity in STEM

Spring 2017 – Fall 2018

Science Education Coordinator **Fall 2015 – Spring 2016**

Hands On! Children's Museum

APPLICABLE SKILLS

- Botany and conifer identification in the Pacific Northwest, USA
- Forest science field techniques in a diversity of biomes
- Competent in: R, Microsoft Office, Photoshop, Fiji, WordPress
- LI-6800 and LI-6400 gas exchange and fluorescence systems
- Scholander Pressure Chamber
- Handy PEA Meter
- Fluorescence Chlorophyll Analysis
- Ecological photography
- Sustainable projects and conservation development in Costa Rican communities
- Strengthening Spanish fluency

PERSONAL WEBSITES, HOBBIES, AND INTERESTS

Hobbies and Interests: Snowboarding, hiking, camping, backpacking, running, yoga, soccer, gardening, house plant-tending, cooking, baking, photography, painting, writing, reading, embroidery, DJ-ing, listening to music

Blog: <https://themillennialperennial.wordpress.com/>

New Zealand/Australia ePortfolio: <https://appstate.digication.com/liliana-nz-oz-exploration>