CARLEY A. BRUNTON

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**OBJECTIVE**

Motivated and analytical recent graduate seeking profession in environmental science aiming to leverage my skills, knowledge and experience toward generating solutions for current environmental issues.

**RESEARCH EXPERIENCE**

**Air Quality Lab, Appalachian State University (ASU) Aug 2013-May 2014**

Researched air quality in Houston, TX and Boone, NC under Dr. Barkley Sive by analyzing air samples for temporal distributions, potential sources and ozone production of various gases. The research gave a baseline for future polices designed to control emissions.

* **Field work and analysis** - Obtained samples at the AppalAir site in Boone, NC to establish a comparison for Houston, TX samples. These samples were then measured and analyzed for various gases using a GC/MS greenhouse gas system.
* **Publication and presentation -** The results were then published in a non-peer reviewed journal and a presentation was given to fellow students, staff, and professors.
* *Journal of Student Research in Environmental Science at Appalachian:* [Distributions of Volatile Organic Compounds in the Greater Houston Area:Influences of VOCs on Air Quality](http://environment.appstate.edu/sites/environment.appstate.edu/files/JSRESA_SP2014_BRUNTON.pdf)*, pp. 34-43.* Volume 4, Spring 2014.
* Conducted minor research in various fields including hydrology of a local stream, volcanology, invertebrate paleontology of NC marine species, and the analysis of aerosol data.

**OTHER EXPERIENCE**

**AuPair for Private Family in Montherod, Switzerland Jan 2015-Dec 2015**

Responsible for the safety and nurturing of two boys aged seven and nine as well as the logistics of the home.

* **Cultural Experience and Global Awareness** - Enriched intercultural communication skills, learning of the French language and knowledge of new cultures were gained while traveling throughout Europe.
* **Logistics -** Implemented safety and responsibility for the children throughout the day, developed superior critical thinking, problem solving and organizational skills.

**Assistant Office Manager, Department of Physics & Astronomy, ASU Aug 2010-May 2014**

Responsible for conducting logistics around the office, gaining connections and building relationships between the departmental staff and me, as well as communicating the needs and concerns of the students and staff.

* Responsible foradministrative duties, organization of the office and communication between university members.Tasks include scheduling, copying, filing and phone communication.

**Leadership roles -** Treasurer and member of the Club of Environmental Sciences, member of NSF funded *Academy of Science*, Arts and Sciences Junior Marshall, Student researcher and presenter in Geology and Chemistry

**Volunteer Experience -** Conducted science club at local elementary school with the NASA funded grant CAN-DOO, Watauga River Clean up, Adopt a Street, Megs Smile Foundation

**EDUCATION**

Bachelors of Science, Appalachian State University, Boone, NC May 2014

**Major**: Environmental Science **Minor**: Geology

* **Academic Standing** – Deans list and A/B, 3.4 GPA, Scholarship recipient for NSF funded STEP program

**INTERESTS AND PERSONAL INFORMATION**

I have a passion for travel and have experienced 22 countries; am a foodie; and a lover of the outdoors.

Carley A. Brunton

May 10, 2016

To whom it may concern,

I am a recent graduate of Appalachian State University with a BS in environmental science and a minor in geology, seeking the field technician: tropical forest ecosystem ecology and climate change position in Puerto Rico. I have a passion for the environment, traveling, and research and would like to become involved with an institution that will help contribute to solving the environmental issues of today. I offer you a motivated graduate seeking to expand my skills, knowledge and experiences in a professional and real world setting.

For my undergraduate, I focused on field research in an air quality lab, producing a publication on VOCs. The publication involves the distributions of volatile organic compounds in the Greater Houston area and the influences of these VOCs on Air Quality. I was required to take samples in the field, analyze the samples using a multichannel GC/FID/ECD and GC/MS analytical system where temporal distributions, average mixing ratios, possible sources of the alkanes and the ozone production potentials were calculated. The research was then published in the Journal of Student Research in Environmental Science at Appalachian. Through this research experience, I have gained experience in lab work, data collection, data analysis, publications, collaborating with other scientists, and gained proficiency in communication, organization and management skills.

The research I have completed in air quality can be applied to projects involved with various other environmental fields, including ecology and can be directly related to the analysis of the greenhouse gas emissions and the impact on climate change in the Puerto Rican soils. I have experience in determining sources of air pollutants, quantifying emissions and other compounds and analyzing what these impacts have on the environment and hope to apply this skill set to the Puerto Rico ecology project. I also have completed minor research labs in soil sampling, hydrology of a local stream, and the analysis of aerosol data.

Apart from my lab experience, I have traveled throughout 22 countries. My global travels have widened my point of view of myself and the world we live in and I want to be a part of a team that focuses on a more positive change for the environment. I believe this field technician position will allow me to apply my knowledge in a real world setting, gain experience in the filed while adding a unique perspective to the project. I am passionate about making a difference, and this position will allow me to make a small change in an ecosystem and potentially lead to a bigger picture on climate change.

I would greatly appreciate an opportunity to talk with you further. I am available to start immediately. Please feel free to contact me by email ( [carleybrunton@gmail.com](mailto:carleybrunton@gmail.com) ) or phone (19197537473). I have attached my CV for your further consideration. Thank you for your time.

Sincerely,

Carley Brunton

References

1. Barkley Sive ([barkley\_sive@nps.gov](mailto:barkley_sive@nps.gov)) Dr. Sive was my research professor in the air quality lab at Appalachian State University
2. Christopher Thaxton ([thaxtoncs@appstate.edu](mailto:thaxtoncs@appstate.edu)) Chair of the environmental science department at Appalachian State University
3. Angela Owen ([owenat@appstate.edu](mailto:owenat@appstate.edu)) Angela was my supervisor for my assistant office manager position at the Department of Physics and Astronomy, ASU.