

ASHLEY MULLIKIN

Raleigh, NC

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Summary

Research-driven Data Analyst with rich experience in environmental data science and geographical information systems with a passion for using data to create an understandable story. Proven success in applying qualitative and quantitative methodologies in research and publishing extensive scientific papers. Demonstrated skills in data collection and cleaning, gleaned data-driven insights using a multitude of coding, mathematical, and statistical tools. Adept at breaking down complex data structures, performing Spatio-temporal analysis, and translating results into statistical reports. Expert in digital cartography, public use graphic designing, and database optimization. Adept at working independently and collaborating with teams across multiple backgrounds to take information from a wide variety of sources and effectively break down concepts into layman terms for diverse audiences. Excels in project management, complex problem solving, and complicated task management and organization.

Technical Skills

Geospatial Tools: ArcGIS, ArcPro, QGIS, ArcMap Online, ToxPi GIS, ENVI, GPS

Development Tools: R, Python, Tableau, HTML/CSS, JavaScript, React, Express, Node, jQuery, Amazon Web Services, SQL, NoSQL, Server-Side APIs, Third-Party APIs, Web APIs, Progressive Web APIs, JSON, AJAX, Github, Gitbash, Visual Studio Code; **Databases:** Mongo DB, MySQL, Oracle

Professional Tools: Microsoft Office Suite, SharePoint, EndNote, OneNote, Slack, Basecamp, Adobe Photoshop, Adobe Illustrator

Laboratory: GPC, Mass Spectrometry, DNA Extraction, Sample Preparation, Hazardous Chemical Handling, Creation of Buffer Solutions.

Relevant Experience

Environmental Data Scientist

2019 – Present

Environmental Protection Agency

Durham, NC

Contributing to the delivery of research projects based on chemical exposure pathways and public health with a focus on children's health. Working in a government setting with regular communication among different branches, organization of extensive amounts sensitive information and data, project management and documentation, and attention to detail is an everyday necessity.

Key Accomplishments:

- *Successfully published and co-authored 13 scientific papers in peer-reviews journals and presented research at five international conferences. Commended by management at each quarter, half, and yearly review for "Exceeding Expectations" in reference to team work, projects completed, leading change and innovation in the workplace with three awards given due to positive annual reviews.*

GIS and Data Technician

2018 – 2020

University of North Carolina Chapel Hill

Chapel Hill, NC

Key Accomplishments:

- *Won the UNC excellence in the use of GIS award for making a public facing interactive map showing the potential impact of natural disasters on vulnerable NC populations, which was later presented at an annual GIS conference.*

Additional Experience

• Rainforest Ecology and Restoration Technician

June 2019 – July 2019

School for Field Studies

Queensland, Australia and North Island, New Zealand

• Coral Reef and Terrestrial Plant Surveys

March 2018

University of North Carolina at Chapel Hill

San Salvador Island, Bahamas

• Historical Collection and Field Assistant

May 2018 – August 2018

Charles Darwin Foundation

Puerto Ayora, Santa Cruz Island, Galapagos, Ecuador

• Chemistry Laboratory Technician and Data Analyst

2016 – 2020

University of North Carolina Chapel Hill

Chapel Hill, NC and at Sea in Atlantic International Waters

Education

Full-Stack Web Development Certificate: University of North Carolina Chapel Hill, Chapel Hill, NC

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

Bachelor of Science in Environmental Science with Minors in Geology and GIS/Geospatial Analytics: University of North Carolina Chapel Hill, Chapel Hill, NC

Example Projects (More in Github Repositories)

Alternative Endings | github.com/ashleymullikin/alternative-endings

Link to Deployed Project: <https://alternative-endings.herokuapp.com/>

- A website that shows people current popular movies, and once an account is made you can add a comment to a movie for what you think would be a better ending. HTML, CSS, JavaScript, Bootstrap, jQuery, Node.js, Express.js, MySQL.

Carbon Footprint Calculator | github.com/ashleymullikin/carbon-footprint

Link to Deployed Project: ashleymullikin.github.io/carbon-footprint/

- An app that calculated a user's yearly carbon footprint based on the make, model, year, and miles driven for their specific vehicle. Then comparing it to the U.S. average and stores that data. HTML, CSS, JavaScript, Carbon Interface API, Icons8 API, Bulma CSS framework.

Employee Tracker | github.com/ashleymullikin/work-day-scheduler

Link to Deployed Project: ashleymullikin.github.io/work-day-scheduler/

- Employee Manager Summary Employee Manager is a CLI app for managing human resources. You can add, edit, and delete employees, departments, and roles, and manage the associations between them. HTML, CSS, JavaScript, Node.js.

Sample of Publications and Presentations

Children's Environmental Health: A Systems Approach for Anticipating Impacts from Chemicals written by Elaine A. Cohen Hubal, David M Reif, Ashley Mullikin, Rachel Slover, John C Little (**Published in International Journal of Environmental Research and Public Health**)

- Co-authorship on a paper focused on different pathways for a child's exposure to different chemicals, social influence on health, and a real-world model based on socioeconomic, geographic, and health data

Demonstrating a Systems Approach for Integrating Disparate Data Streams to Inform Decisions on Children's Environmental Health by Elaine A. Cohen Hubal, Nicole DeLuca, David M Reif, Ashley Mullikin, Rachel Slover, John C Little (**Published in International Journal of Environmental Research and Public Health**)

- Co-authorship on a paper focused on different pathways for a child's exposure to different chemicals, social influence on health, and a real-world model based on socioeconomic, geographic, and health data

Poster Presentation: Demonstrating a Systems Approach for Integrating Disparate Data Streams on Children's Environmental Health written by Elaine A. Cohen Hubal, Ashley Mullikin, Rachel Slover, and Nicole DeLuca (ISES 2021 International Virtual Meeting)

Poster Presentation: The Effect of Socioeconomic Status and Geographic Location on Children's Health written by Ashley Mullikin and Rachel Slover (ISES 2020 International Virtual Conference)