Hope Johnson

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EDUCATION

University of Colorado Boulder
- Master of Science in Data Science   *Expected June 2027*

RELEVANT EXPERIENCE

Cooperative Institute for Climate, Oceans, and Ecosystem Studies (CICOES), Seattle, WA
Research Intern   *June – August 2024*
- Completed analysis project comparing modeled vs. observed air-sea (latent and sensible heat) flux interactions using NOAA PMEL
- Identified biases in reanalysis products using Python and MATLAB, contributing to climate model validation
- Presented results and insights in reports and a formal presentation throughout and at the conclusion of the internship
- Applied time series analysis techniques to multidimensional datasets to detect biases in abundantly used reanalysis products

SUNY Research Foundation, University at Buffalo Department of Geology, Buffalo, NY
Research Aide   *September 2023 – May 2024*
- Processed and analyzed 200+ years of glaciology and surface mass balance data used in climate models
- Cleaned, visualized, and interpreted large scientific datasets using Python and MATLAB
- Investigated model errors using data wrangling, visualization, and time series analysis techniques

University at Buffalo, Buffalo, NY
WiSE Ambassador   *August 2023 – May 2025*
- Served as a point of contact for students, current and prospective, in learning more about the program and how to get involved on campus, and their respective majors
- Responded to email inquiries, promoting the WiSE program, supported recruitment at orientation events
- Led events hosted or co-hosted by WiSE throughout the semester

PROJECTS

Fitness Wearable Marketing Analysis
- Analyzed and visualized smart-device fitness data wearable-device brands to determine how to adjust their marketing strategy to increase their customer subscriptions and purchases using SQL and Tableau

Air-Sea Flux Comparison with Reanalysis and Saildrone Observations
- Conducted detailed climate data validation using Python and MATLAB
- Explored discrepancies between reanalysis products and field observations

TECHNICAL SKILLS

<u>Languages/Tools</u>: **Python** (*Pandas, NumPy, matplotlib,* SciPy), SQL, BigQuery, **Excel, MATLAB, Tableau, R**
<u>Certifications/Licenses</u>: *Google Data Analytics Certification*
<u>Data Skills</u>: Time Series analysis, Data Cleaning, Dataset manipulation, statistical analysis, data visualization, data aggregation, exploratory data analysis
<u>Proficient in Microsoft Office Suite</u> (Word, Excel, PowerPoint, Outlook, etc.)

LEADERSHIP & INVOLVEMENT

Alpha Kappa Chi, **Treasurer** *Spring 2023 – Spring 2025*
Collegiate Science and Technology Entry Program (CSTEP), *Fall 2023 – Spring 2025*