

Benjamin J. Salopek

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Education

The Ohio State University

Bachelor of Science - Atmospheric Sciences | Minor - Communication

May 9, 2021

Cumulative GPA: 3.441

Major GPA: 3.855

Master of Science – Atmospheric Sciences

Expected Completion of May 2023

Advisor: Dr. Steven Quiring

Relevant Coursework

Atmospheric Thermodynamics Dynamic Meteorology 1 & 2 Boundary Layer Climatology

Synoptic Meteorology Lab Microclimatological Measurements

Fundamentals GIS Cartography Synoptic Analysis and Forecasting

Severe Storm Forecasting Calculus 1-3 Introduction to Statistical Analysis

Ordinary Differential Equations General Chemistry

Physics: Mechanics, Thermal Physics, Waves Physics: E&M, Optics, Modern Physics

Academic and Non-Academic Work Experience

Graduate Teaching Associate – The Ohio State University

August 2021 to Present

Geography 1900: Extreme Weather and Climate

Virtual Student Volunteer

March 2021 to August 2021

National Weather Service, Jackson, Mississippi

Student Research Assistant

February 2021 to May 2021

Byrd Polar and Climate Research Center

Project: Urban Heat Island Study across The Ohio State University Columbus Campus

Supervisor: Mr. Jim DeGrand

- Analyze the Urban Heat Island effect using data from ClimaVUE sensors in different areas of the Ohio State Campus.
- Perform maintenance on the stations including the installation of new batteries and solar panels to power the CR300 data collector and ClimaVUE sensors.

- Determine sites for new sensor deployment given the different local climate zone parameters, as well as map a sky-view diagram and calculate the sky-view factor using a clinometer.

Student Research Assistant November 2020 to July 2021

The Ohio State University

Project: Developing an Objective, Impacts-Based Framework for Drought Mitigation Activities in Ohio

Supervisor: Dr. Steven Quiring

- Analyze prior drought data in the state of Ohio to create a new guide for drought situations throughout the state.
- Collect EDDI, VHI, QuickDRI and VegDRI drought indices data from 1980 to present to analyze surface moisture changes in Ohio.

Organizations/Leadership Experience

Geography Graduate Organization, Ohio State University Fall 2021 to Present

Chi Epsilon Pi: Meteorology Honors Society Fall 2020 to Present

- Vice President Fall 2021 to Present
- Treasurer Fall 2020 to Present

Ohio State Meteorology Club Fall 2018 to Spring 2021

Scarlet and Gray Campus Forecasting Team Fall 2018 to Spring 2021

- Vice President Fall 2020 to Spring 2021
- Forecast Leader Fall 2020
- Secretary Fall 2019 to Spring 2020
- Founder and Leader: S&G Video Gameday Forecast Fall 2019 and Fall 2020

Ohio State Athletic Band Fall 2017

Awards/Honors

The Ohio State University Dean's List SP and AU 2019, SP and AU 2020, SP 2021

Fairbrook Elementary PTO College Scholarship Received in May 2017

Eagle Scout: Boy Scout Troop 42 Beaver Creek, Ohio Earned in October 2016

Applicable Skills

- Microsoft Word, PowerPoint, Excel, and Publisher
- Programming: Python
- GIS Technology: ArcGIS Pro, QGIS, PostgreSQL, and ERDAS Imagine 2020