

# CARLIN BLASH

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## EDUCATION

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### THE PENNSYLVANIA STATE UNIVERSITY

Bachelor of Science

Major in Earth Science; Minors in Climatology and Political Science

University Park, PA

Expected May 2025

## RESEARCH EXPERIENCE

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### UNDERGRADUATE RESEARCH ASSISTANT

Hadjimichael Research Group

University Park, PA

August 2024 – Present

- Modeling the effectiveness of grey and green infrastructure in reducing pluvial flooding using SWMM
- Assisting in approximating Baltimore's stormwater pipe system for a larger model

## TEACHING EXPERIENCE

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### UNDERGRADUATE TEACHING ASSISTANT

Earth 402: Modeling the Earth System, Pennsylvania State University

University Park, PA

August 2024 – Present

- Assisting in-class instruction of building and operating STELLA models of Earth systems
- Holding office hours to help students with assignments

## UNIVERSITY PROJECTS AND COUNCILS

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### PENN STATE LOCAL CLIMATE ACTION PROGRAM

August 2024 – Present

- Accounting greenhouse gas emissions for Upper Providence Township, PA, using ClearPath.
- Authoring a climate plan targeting specific emissions reduction
- Presenting emissions inventory and climate plan to the EAC and the Board of Supervisors

### PENN STATE STUDENT SUSTAINABILITY ADVISORY COUNCIL

August 2023 – Present

- Composing written and oral proposals centered on progressing the Sustainable Development Goals on Penn State's campus
- Working alongside stakeholders to recommend solutions to project implementation obstacles
- Presenting proposals to senior leadership

## SKILLS

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- Python
- Systems modeling with STELLA
- Surface water modeling with SWMM
- Stormwater pipe modeling using QGIS
- Greenhouse gas emissions accounting in ClearPath
- Microsoft Office

## LEADERSHIP

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### PENN STATE ECO-ACTION

Treasurer

University Park, PA

January 2022 – Present

- Authored and presented Sustainable Landscapes proposal to the Penn State Student Fee Board
- Filing budget requests and contracts for the annual Earth Day event

## RELEVANT COURSEWORK

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- GEOSC 450: Risk Analysis in the Earth Sciences
- GEOSC 400: Paleoclimatology
- EARTH 402: Modeling the Earth System
- GEOSC 210: Geoscience Data Analysis

## AWARDS

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- Evan Pugh Scholar senior
- Benjamin F. Howell Jr. Award in Geosciences
- President Sparks award
- President Walker award