

**Mikaila A. Mannello**  
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(484)-374-5192

### **Research Interests**

Utilizing ground-based and satellite-based remote sensing techniques to analyze the physical and internal properties of glaciers including factors related to flow and stability, glacial and ice sheet hydrology, and the downstream effects of melting including contribution to sea level rise and water resources.

### **Education**

#### **University of Maine (Orono, ME)**

M.S. Quaternary and Climate Studies

Anticipated Start: August 2021

#### **University of Pittsburgh (Pittsburgh, PA), December 2020**

B.S. Environmental Science, summa cum laude (Envi. Sci. GPA 4.0/4.0)

Certificate in Geographic Information Systems

Second Major in Political Science

Overall GPA: 3.99/4.0

#### **Discover Abroad in Scandinavia (Copenhagen, Denmark & Longyearbyen, Svalbard, Norway), June 2019**

A 3-week study abroad program investigating various methods to studying glaciers including isotopic analyses, ice core data, and mass balance data and the behavior of surging glaciers. During this program, we observed glaciers in Svalbard with guest lectures from students and faculty at the University Centre in Svalbard. (GPA 4.0)

### **Research & Academic Experience**

#### **Environmental Science Degree Capstone, June 2020-present**

*Manuscript in Preparation: "Spatial Variability in Firn Thickness Across the Juneau Icefield"*

Collaborating with Dr. Seth Campbell and Jonathan Maurer in processing and analyzing ground-penetrating radar from the Juneau Icefield to determine the 2012 spatial distribution of firn thicknesses across the Juneau Icefield, AK and determine observable metrics to predict firn thicknesses as a virtual alternative to the 2020 Juneau Icefield Research Program.

### **Relevant Skills & Qualifications**

#### **Software and Computer Skills**

- » Microsoft Office Suite
- » ArcMap
- » GSSI Radan 7
- » Environment for Visualizing Images (ENVI)

#### **Certifications**

- » Geographic Information Systems—University of Pittsburgh, 2020
- » Recreational Level 1 Avalanche Certificate—Alaska Avalanche School, 2021

### **Awards & Honors**

- » 2020 Norman K. and Margaret Flint Memorial Field Geology Award (\$1,500)
- » 2019 University of Pittsburgh Study Abroad Office Scholarship (\$1,000)
- » 2017-2020 University of Pittsburgh Dean's List, 7 consecutive semesters
- » 2017 Brianne Carter Memorial Scholarship (\$3,000)

### **Work Experience**

#### **Land Conservancy for Southern Chester County, June-August 2018**

One of three unpaid interns who performed thorough and detail-oriented trail maintenance through invasive species identification and removal while acquiring knowledge about the local ecosystem.

### **Activities**

#### **Citizens' Climate Lobby Club, University of Pittsburgh Chapter**

*Vice President (2019-20), Active Member (2018-20)*

The main focus of the club is to advocate on behalf of the bipartisan Energy Innovation and Carbon Dividend Act (H.R. 763) to reduce Carbon emissions with providing economic incentives.

#### **Pitt Political Review, University of Pittsburgh Honors College Publication**

*Writer (2018)*

Article Published: "Putting a Lid on Plastic Consumption"