

EDUCATION

Master of Science in Earth & Atmospheric Sciences *(Anticipated May 2022)*
Georgia Institute of Technology (Atlanta, GA)

Project: Investigating englacial and subglacial hydrologic processes at Store Glacier using Autonomous Phase-Sensitive Radio Echo Sounding (ApRES)

Advisor: Dr. Winnie Chu

Relevant Coursework: Glacier & Ice Sheet Dynamics, Geodynamics, Earth Systems Modeling, Global Climate Change, Land Remote Sensing, Math Methods in Engineering

Bachelor of Science in Earth & Climate Sciences: *May 2020*

University of Maine (Orono, ME)

University of Maine Honors College

Concentration: Climate Sciences

GPA: 3.915/4.0

Honors Thesis: The Microstructural Heterogeneity of Ice in Jarvis Glacier, Alaska

Advisor: Dr. Christopher Gerbi

Relevant Coursework: Earth Systems, Geomatics, Calculus 1,2&3, Differential Equations, Dynamical Systems, Introduction to Glaciology, Paleoceanography, Tectonics, Sedimentology/Stratigraphy, Geochemistry, Geomorphology

RESEARCH AND WORK EXPERIENCE

Graduate Research Assistant, Georgia Institute of Technology *Fall 2020 - Present*
Project focusing on investigating englacial and subglacial hydrology at Store Glacier using ApRES data

Student Research Assistant, University of Maine *2017-2020*
Conducted analyses for Jarvis Glacier, Alaska, by preparing ice thin sections to measure optically visible properties and assisting with the scanning electron microscope

Intern, Wolfden Resources Corporation *2018*
Assisted in bedrock mapping in the Pickett Mountain region in Northern Maine, performed geotechnical logging for drill core, and prepared core samples with a diamond tip saw

PUBLICATIONS

Gerbi, C., Mills, S., **Clavette, R.**, Campbell, S., Bernsen, S., Clemens-Sewall, D., . . . Hruby, K. (2021). Microstructures in a shear margin: Jarvis Glacier, Alaska. *Journal of Glaciology*, 1-14. doi:10.1017/jog.2021.62

CONFERENCE ABSTRACTS

Gerbi C, Mills S, **Clavette R**, Campbell S, Bernsen S, Clemens-Sewall D, Lee I, Hawley R, Kreutz K, Hrubby K, "Microstructures in a Glacier Shear Margin" American Geophysical Union Meeting, *December 2020*.

Clavette R, Mills S, Gerbi C, Bernsen S, Campbell S, Clemens-Sewall D, Lee I, Hawley R, Kreutz, K. "Structure Characteristics and Ice Crystal Orientation in the Lateral Margins of Jarvis Glacier." UMaine Student Symposium, *April 2018*.

Gerbi C, Mills S, Bernsen S, Lee I, Clemens-Sewall D, Hrubby K, Campbell S, Hawley R, **Clavette R**, Bellefontaine J, Kreutz K "Crystallographic Orientations in the Lateral Margin of Jarvis Glacier, Eastern Alaska Range." American Geophysical Union Meeting, *December 2018*.

TEACHING EXPERIENCE AND OUTREACH

Graduate Teaching Assistant, Georgia Institute of Technology. *Fall 2020 & Fall 2021*
Taught laboratory sections of the introductory Earth and Atmospheric Sciences course: "Earth Processes."

Maine Learning Assistant, University of Maine *Spring 2019*
Assisted graduate teaching assistant in laboratory sections of the introductory course: "Environmental Geology."

Guest Speaker, Atlanta Science Festival *Spring 2021*
Spoke to elementary school students about glaciers and climate change as part of their Atlanta Science Festival programs.

FIELD EXPERIENCE

ApRES Deployment: Greenland *Anticipated Summer 2022*
Anticipated field work assisting to deploy ApRES and other equipment in collaboration with other institutions on Helheim Glacier in East Greenland

Field Camp, **University Centre in Svalbard** *July-August, 2019*
Conducted individual research product measuring suspended sediment in a proglacial river in western Svalbard. Also drilled ablation stakes, measured conductivity and discharge and was trained in polar bear safety.

Wolfden Resources Corporation *2018*
Retrieved data from old drill holes in the North Maine Woods, built trails on the drilling property for individuals to conduct water quality testing.

HONORS AND AWARDS

University of Maine:

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| Earth and Climate Outstanding Senior Award | 2020 |
| George H. Stone Outstanding Academic Achievement Award | 2019 |
| Thomas E. Lynch Thesis Scholarship | 2019 |
| Professor Joseph M. Trefethen Memorial Scholarship | 2018 |
| Golden Field Camp Scholarship | 2018 |
| Kupfer Field Camp Scholarship | 2018 |
| Presidential Scholar | <i>Fall 2016, Spring 2017, Spring 2019</i> |
| Dean's List | 2016 – 2020 |

OTHER ACTIVITIES

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| President, UMaine Tennis Club | <i>2016-2020, President: 2017-2020</i> |
| UMaine Geology Club | 2016 - 2020 |