

Hayden Libby

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Education and Awards

Montana State University

- Pursuing MS in Civil Engineering
- Graduate Research Assistant in the Sub-Zero Research Lab
- Research: Mechanics of water flow through snow in micro / lab scale with the goal of relating to watershed scale

University of Maine, Orono

- Major: Civil Engineering
 - Concentration in Water Resources
- Minor: Climate Sciences
- Graduated: May 2023
- Cumulative GPA: 3.630
- Relative Course work: Material Science, Structural Analysis, Fluid Mechanics, Computers in Civil Engineering, Glaciology, Environmental Engineering, Open Channel Flow, Soil Science, Hydrology, Project Management and Geomatics

Scholarships

- Frank Sleeper Sawyer (2021-22), Frederick & Marianne Hill (2021-22), AGC Maine (2021-22, 2022-2023)
- UMaine Directors and Katahdin scholarships (2019-2023)

Awards

- Presidential Scholar (Fall 2020)
- Excellence in Public Speaking (Fall 2020)
- CUGR (Center for Undergraduate Research) Grant (Summer 2022)

Experience

Montana State University Research Assistant (January 2024 – present)

Bridger Bowl Ski Instructor (December 2023 – present)

Montana State University Campus Rec Grad Assistant (August 2023-December 2023)

- Managed rec staff with a coordinator
- Ran leadership trainings on various topics including: Leadership styles, conflict management, giving and receiving feedback, DEI, and decision making
- Set on the climbing wall

Maine Bound Adventure Center: Trip Staff Manager, Lead Instructor, Climbing Wall Instructor (Fall 2019 – Spring 2023)

- Lead outdoor oriented trips for students and faculty
- Create lessons, Emergency Action Plans, and schedules for trips
- Helped budget, staff, and plan trips and trip schedules

- Worked to have trips be as accessible as possible, almost all of our trips ran this year introducing new folks to the outdoors at a low cost
- Taught staff professional development days in areas such as: Climbing, Mountaineering, Navigation, group management, heuristic traps, and inclusivity
- 20 hours per week during the school year

Research Hydrologist, University of Maine (April 2022 – Spring 2023)

- Designed and implemented a gage station on the Penobscot River with grant money
- Conducted stream surveys and evaluations in the North Maine Woods
- Created Hydraulic Models
- 150+ hours of field work this past summer in adverse conditions, this included hiking many miles in steep terrain with instrumentation
- Analyzed data collected in the field to come up with stream diagnostics
- Had meetings with various stakeholders in the project about scope and their desires
- Taught first year Research Learning Experience field trips
- 40 hours per week when in the office, 50+ hours per week when in the field

Teaching Assistant: Introduction to Transportation Engineering (Spring 2022)

- Held office hours each week
- Graded homework and proctored exams

Student Research Assistant: Concrete Lab (Summer 2020)

- Tested concrete slurries containing different amounts of CNF (Cellulose-Nano Fibrils)
- Performed shear strength and drop tests on cured cement
- Provided summaries of results to supervisor
- Conducted tests and mixed slurries without supervision

Maine Boys to Men, Volunteer (2017-2019)

- Served on the Student advisory board
- Facilitated lessons around sexuality, gender norms, and relationships

Skills

Computer Skills: MATLAB, Excel, Word, Caltopo, ArcGIS, Global Mapper, HEC-RAS, ENVI, CIVIL-3D

Meta Skills: Great at working in a team, leadership skills, organized, dedicated, public speaking, management of a team

Technical Skills: AIARE I, Wilderness First Responder, Climbing wall instructor, Ice / Snow system skills, SPI skills, Surveying (total station, auto level), Data analysis, Writing, Juggling on a unicycle