JONDALL NORRIS

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PORTLAND, ME, USA

EDUCATION

Bowdoin College, Brunswick, ME, USA — May 2025
Bachelor of Arts, ***Physics,*** *Minor: Earth and Oceanographic Science* — **GPA:** 3.9
Relevant courses: Satellite Remote Sensing of the Ocean, Ocean and Climate, Methods of Theoretical Physics, Independent Study in Physical Oceanography

The University Centre in Svalbard (UNIS), Longyearbyen, Svalbard, Norway — August 2023 - May 2024
Bachelor Exchange Student, ***Department of Arctic Geophysics***
Relevant courses: Polar Ocean Climate, Polar Meteorology and Climate, Snow and Ice Processes, Air-Ice-Sea Interaction I

RESEARCH EXPERIENCE

Cooperative Institute for Great Lakes Research (CIGLR), May – August 2025
University of Michigan, Ann Arbor, MI, USA
Great Lakes Summer Fellow, Advisors: Drs. Hazem Abdelhady, Ayumi Fujisaki-Manome, David Cannon, Dani Jones

- Researched and developed a deep learning approach for the reconstruction of the Great Lakes ice cover spatial distribution using historical land-based temperature observations
- Produced and analyzed hindcasted maps of Great Lakes ice cover dating back to 1897
- Collaborated with a diverse group of mentors across CIGLR and NOAA's Great Lakes Environmental Research Laboratory (GLERL)
- Utilized high-performance computing resources at U-M and GLERL to train and implement deep learning models

Interdisciplinary Research Group on Polar Regions (GRIMP), June – August 2024
Université de Sherbrooke, Sherbrooke, QC, Canada
Research Intern, Advisors: Dr. Daniel Kramer, Prof. Alexandre Langlois

- Researched and generated signal processing techniques for 24 GHz FMCW radar measurements over lake ice, working towards a process for real-time detection of lake ice thickness via radar mounted on low-flying light aircraft
- Developed processing and visualization scripts in Python, utilizing SciPy and PyWavelets

Department of Arctic Geophysics, UNIS, Longyearbyen, Svalbard, Norway — June – August 2024
Research Intern, Advisors: Prof. Ragnheid Skogseth and Prof. Frank Nilsen

- Assisted in the acquisition of vessel-mounted acoustic doppler current profiler (VM-ADCP) measurements in Isfjorden during the FINIS fall campaign
- Post-processed VM-ADCP data remotely using Nortek software, MATLAB, and Python, attempting to incorporate more advanced processing steps into Nortek workflow

Other Course-Based Research Projects:
Comparison of Soil C Storage and CH_4 and CO_2 Fluxes in the Wetlands of Midcoast Maine; Hydrography, Ice Production, and Circulation in Billefjorden; Sea Ice Topography in St. Jonsfjorden; Local Scale Wind Variability in Petuniabukta; Mapping the Ice Thickness and Glacial Structure of Tellbreen; Investigating the Complex Dynamics of the Kerguelen Upwelling System

TEACHING EXPERIENCE

Bowdoin College, Brunswick, ME, USA
Learning Assistant: Satellite Remote Sensing of the Ocean — Fall 2024

- Hosted office hours to assist students with MATLAB scripting and data access, and improve their understanding of remote sensing and oceanography concepts
- Independently created scripts and materials that supplemented and streamlined existing course content and allowed for the addition of new curriculum

Learning Assistant: Introductory Physics II — Fall 2024, Spring 2025

- Hosted weekly learning group sessions, helped students review and practice course topics and skills
- Graded and provided feedback on weekly problem set

- Acted as Head LA in Spring 2025: managed assignments and scheduling of 5 other LAs, acted as primary point of contact for students and professors

Learning Assistant: Oceanography Spring 2023, Spring 2025

- Hosted office hours to aid students' learning and assisted in weekly labs
- Collaborated with professors, lab instructors, and other LAs
- Worked and researched independently to create interactive demos and improve labs and course material
- Assisted students in collecting data on research cruises in Harpswell Sound
- Acted as LA Mentor in Spring '25: mentored 3 new LAs, led by example in instruction and communication with students

WORK EXPERIENCE

Apogee Adventures, Brunswick, ME / Anchorage, AK, USA June – August 2023
Trip Leader – Alaska Mountains and Coast

- Guided 15-16 year-olds on multi-night backpacking and outdoor expeditions near Anchorage, AK

Rippleffect, Portland, ME, USA May – August 2022
Sea Kayak & Leadership Guide

- Led groups of teenagers through weeklong sessions of activities, teamwork and reflective exercises, ropes courses, and sea kayaking

Keystone Ski and Ride School, Keystone, CO, USA November 2020 – April 2021
Ski Instructor

- Adhered to PSIA curriculum and best practices, attained Alpine Level 1 Certification

Kollegewidgwok Sailing Education Association, Blue Hill, ME, USA June – August 2021
SailMaine, Portland, ME, USA June 2017 – August 2020
Sailing Instructor

- Instructed 8-18 year-olds, and occasionally adults, in small sailboats on Casco Bay and Blue Hill Bay

AWARDS AND FELLOWSHIPS

- **Great Lakes Summer Fellowship** May – August 2025
  (Cooperative Institute for Great Lakes Research)
- **American Association of Physics Teachers Learning Assistant Prize** May 2025
  (Bowdoin Dept. of Physics)
- **EOS Service to the Department Award** May 2025
  (Bowdoin Dept. of Earth and Oceanographic Science)
- **Research Mini-Grant** – "ISSM Workshop 2025: Use of Glacier Models in EOS Curriculum" March – May 2025
  (Bowdoin Office of Student Fellowships and Research)
- **Sara and James Bowdoin Scholar** (Dean's List) 2022, 2023
  (Bowdoin)

SKILLS

Language skills: English, fluent, Spanish, B1
Computer skills: Python, MATLAB, Unix/Shell Scripting, Computational Physics, High-Performance Computing, Machine Learning, Tensorflow/Keras, LaTeX, QGIS, ReflexW, ODV, MS Office, G Suite
Instruments/Methods: SeaBird CTD, Acoustic Current Profilers, Gliders, Oceanographic Moorings, Snow and Ice Radar/EM methods, Automated Weather Stations, Sonic Anemometers, Soil Gas Flux Measurement, Satellite Remote Sensing
Certifications: Wilderness First Responder (SOLO), AS-101 Arctic Survival and Safety (UNIS)