

Amelia Tarren

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EDUCATION

University of Vermont, Burlington VT
Masters Candidate in Applied Mathematics

Hampshire College, Amherst, MA
Bachelor of Arts Degree, May 2015

PROFESSIONAL EXPERIENCE

Mathematics Lecturer, UVM Department of Mathematics teaching assistantship **January 2019-Present**

- Lead instructor for Calculus, and Linear Algebra sections by delivering instruction, evaluation and technical support to students.

Research Coordinator, UVM, NOAA Lake Champlain Sea Grant
Program Assistant

January 2019- December 2019
August 2016-December 2018

- Collaborate with international, federal, state and private agencies on water quality research
- Coordinate outreach programming throughout the Lake Champlain Basin
- Oversee intern staff and maintain Lake Champlain Sea Grant outreach curriculum, and laboratory

Research Assistant, UMASS Physics Department

December 2015 - Present

- Write data analysis macros based on simulated proton collision data from the LHC ATLAS Detector
- Perform research using ROOT software platform on a Unix computer cluster
- Present associated background information and analysis reports to research team

Education Consultant, Walker Tutoring

August 2016 - March 2017

- Designed and taught math, chemistry and biological science courses up to 200-level

RESEARCH EXPERIENCE

- Mathematics: Applications of functional analysis
- Data Science: Election prediction algorithms using the Vermont Advance Computing Cluster (VACC)
- Experimental Particle Physics: Muon Spectrometer data analysis, UMASS Physics Department

SKILLS

- C++, MATLAB, Python, LaTeX, Mac, Windows OS, MS Office Suite, Website Development
- Selected Coursework: Complex Network Analysis, Numerical Analysis, Chaos and Dynamical Systems

HONORS AND AWARDS

- RSEN Dean's Merit Award (2017, 2018)
- Ingenuity Award, Hampshire College (2015)
- Jane and Michael Bardsley Academic Achievement Award, Greenfield Community College (2011)
- Human Relations Award, National Conference for Community and Justice (2010)