

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

Greenfield Community College, Greenfield, MA
Associate of Environmental Studies Degree, May 2011

PROFESSIONAL EXPERIENCE

Teaching Assistant—UVM Department of Mathematics

January 2019-Present

- Assist lead instructors with Linear Algebra sections by delivering instruction, evaluation and technical support to students

Program Assistant—UVM, NOAA Lake Champlain Sea Grant

August 2016-December 2018

Interim Research Coordinator

January 2018-June 2018

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

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

Private Tutor—Walker Tutoring

August 2016 - March 2017

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

RESEARCH EXPERIENCE

- 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, R, LaTeX
- Relevant Coursework: Complex Network Analysis, Numerical Analysis, Chaos and Dynamical Systems
- ArcGIS 10.5
- Mac, Windows OS, MS Office Suite

HONORS AND AWARDS

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