

# Eric Fay

**Mathematics Teacher** at *Woodland Jr/Sr High School* in Baileyville Maine

September 2016 - June 2018

- Taught geometry, algebra, trigonometry, statistics, and computer science to students between the ages 14 through 18 years
- Created at least 80% of educational materials and assessments

**Bachelor of Arts in Mathematics** and **Bachelor of Science in Physics** from *Rutgers, The State University of New Jersey*

September 2012 - May 2016

- Learned to write proofs and communicate abstract concepts precisely
- Presented 40 minute blackboard lectures
- Attended advance and graduate courses, conferences, and seminars such as Biology Bootcamp
- Completed Research Experiences for Undergraduates (REU) program on Knot Theory
  - worked with a group of 5 graduate students on understanding the current field
  - attended a week long conference in Montreal
  - regularly presented informal lectures on relevant topics
- Wrote programs to analyze physics experiments

**Associate of Science in Science and Mathematics** and **Associate of Science in Physics** from *Raritan Valley Community College* in New Jersey

July 2011 - December 2012

- Developed habits of independent learning
  - started using online education resource such as MIT Open Course Ware
  - Met after classes with friend to share knowledge
- Practiced communicating technical information in small groups
- Tutored physics
- Learned to present solution neatly with diagrams and calculations for fellow engineers to validate

**Volunteer Trail Crew Member** with *American Conservation Experience* based in Flagstaff Arizona

January 2011 - July 2011

**Thru Hiker** along the *Appalachian Trail* from Georgia to Maine

April 2010 - September 2010

**Studied Computer Science** at Rochester Institute of Technology

September 2006 - June 2007

**Skills(years-of-use):** Python(4), Linux(12), Java(4), LaTeX(5), R(1), Javascript(2), HTML(3), C++(1), Linear Algebra(3), Mathematical Analysis(2), Machine Learning(1), Statistics(2)

Certificates: HarvardX: Data Science Professional Certificate (8 of 9 completed)