

# Laura Laderman

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## Education

Swarthmore College – Swarthmore, PA  
Major: Physics, Minor: Statistics

May 2015  
GPA: 3.8 / 4.0

## Employment

- 2015 – present: *Instructor* – Nature's Classroom  
Teach ecology, physics, engineering, and teambuilding through hiking and hands-on classes at an overnight outdoor education program
- 2015: *Summer of Maps Fellow* – Azavea  
Performed geospatial data analysis, designed print and web maps, and developed interactive data visualizations for two non-profits. Gave two-hour presentations on the findings and their implications to a group of stakeholders at each organization.
- 2014 – 2015: *Science Associate* – Swarthmore College Physics Department  
Lead problem sessions for introductory mechanics course
- 2014: *Summer Research Intern* – Lamont-Doherty Earth Observatory, Columbia University  
3D mapped glacially-eroded rock using structure-from-motion photo-processing software. Presented research at the American Geophysical Union Fall Meeting.
- 2014: *Researcher* – Swarthmore College Engineering and Environmental Studies Departments  
Conducted GIS research on Philadelphia green stormwater infrastructure projects
- 2013: *Instructor and Residential Advisor* – Exploration Summer Program  
Planned and taught hands-on physics and engineering classes for middle school students, supervised students and lead activities on trips, during evenings on hall, and during free time
- 2012: *Summer Researcher* – Swarthmore College Physics Department  
Researched alignment and phase transitions in chromonic liquid crystals
- 2011 – 2015: *Co-Coordinator* – Green Advisors  
Coordinated group of 30 hall-based peer educators that facilitate composting in dorms, advocate for environmentally-friendly policies and behaviors, and plan campus events
- 2004 – 2013: *Assistant Teacher and Summer Camp Teacher* – DanceEsteem  
Assisted in dance classes; organized and taught at camp for elementary school students

## Computer Skills

*Mapping:* ArcGIS, QGIS, CartoDB, PhotoScan

*Data Analysis:* R, JMP, Mathematica, Matlab, basic Python

*Data Visualization:* D3.js, Processing, basic HTML/CSS/JQuery

*Other:* LaTeX, Inkscape, Microsoft Office, basic Git

## Relevant Coursework

Statistical Methods, Data Analysis and Visualization, Mathematical Statistics, Introduction to GIS, Special Topics: Applied Analysis with GIS