Laura Laderman

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Education

Swarthmore College — Swarthmore, PA   May 2015
B.A. in Physics with a minor in Statistics   GPA: 3.8 / 4.0

Employment

2016 – present: *Data Analyst* — Measure of America of the Social Science Research Council
Conduct analysis and create static and interactive data visualizations on topics such as youth disconnection, human development, and economic opportunity. Manage projects, supervise interns, conduct training sessions, and present at conferences and other events.

2015 – 2016: *Instructor* — Nature's Classroom
Taught 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. Presented findings 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
Planed 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, Carto, Leaflet.js, PhotoScan

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

Data Visualization: D3.js, Processing, HTML/CSS/JS

Other: LaTeX, Inkscape, Adobe Suite, Microsoft Office, Github

Relevant Coursework

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