

Laura Laderman

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Employment

- 2016 – present: **Manager of Data Analysis and Visualization (formerly Data Analyst)** – Measure of America, a program of the Social Science Research Council
Conduct analysis and create static and interactive data visualizations. Lead the product development process for mapping tools, including working on content, design, and UI/UX iteratively in collaboration with users and stakeholders. 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. Developed curriculum for classes focused on water rockets, catapults, marble roller coasters, and giant soap bubbles, among others.
- 2015: **Summer of Maps Fellow** – Azavea
Performed geospatial data analysis, designed print and web maps, and developed interactive data visualizations for two nonprofits. 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
Wrote curriculum and taught two three-week sessions of hands-on physics and engineering classes for middle school students on rocketry and remote control car construction.
- 2012: **Summer Researcher** – Swarthmore College Physics Department
Researched alignment in chromonic liquid crystals. Findings published in two journal articles.
- 2011 – 2015: **Co-Coordinator** – Green Advisors, Swarthmore College
Coordinated group of 30 hall-based peer educators that facilitated composting in dorms, advocated for environmentally-friendly policies and behaviors, and planned campus events.

Education

2011 – 2015: Swarthmore College: Swarthmore, PA – B.A. in Physics with a minor in Statistics, GPA: 3.8

Computer Skills

Mapping: ArcGIS, QGIS, Carto, Leaflet.js, PhotoScan

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

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

Other: Illustrator, InDesign, Premiere, LaTeX, Inkscape, Microsoft Office, Github

Relevant Coursework

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