



Anna (Beck) Lawler

Geography Dissertator & Cartographer/GIS Analyst

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GOAL

To use my experience producing maps, conducting GIS analyses, researching, and collaborating, to work with the team to produce better infrastructure for more functional and useful spaces.

OTHER SKILLS

Qualitative Methods

I have 8+ years experience designing qualitative research procedures and conducting interviews, focus groups, and surveys in diverse research settings.

Coding

HTML, CSS, Javascript, D3, and Leaflet.

HIGHLIGHTS

A passion for the power of maps and other visual expressions to effect change.

Extensive experience working in communities with diverse stakeholders to understand their experiences and concerns.

FUN FACTS

I founded and ran a successful small business focused on zerowaste home goods. I co-founded and taught at a homeschool cooperative incorporating an environmental based curriculum. I worked for the Beacon Institute in New York to understand the drivers of pollution in local rivers.

EXPERIENCE

Dissertator/Researcher • U.W. Madison Geography • 2022-present

Produced maps that visualized uncertainty in environmental determinants of health. Utilized and developed **technical and professional written communication** skills through grant writing, outreach materials, and chapter writing. Engaged in **team building and public outreach** to build networks of research partners and subjects. **Managed my research team** and participants to complete research goals. Processed information related to health and the environment to better understand prediction efforts.

Cartographer & Researcher • CSA Zambia • June 2022-Dec 2024

Visualized findings in an interactive map of farmers' own video accounts describing their experiences with Climate Smart Agriculture programming (forthcoming web publication in 2025). **Built raster and shapefile data sets to visualize** climactic change in Zambia. Conducted qualitative interviews with 80+ farmers in remote villages and with governmental and nongovernmental agricultural researchers and extension agents in bureaucratic centers in Eastern Province.

Cartographer • U.W. Madison Cartography Lab • 2020- 2022

Collaborated with a diverse clientele to create finished professional looking and clear (Illustrator, Photoshop, InDesign) maps for print and digital publication. These maps include **raster analysis** to visualize Ugandan healthcare needs, **statistical analysis** to produce meaningful heat maps of climate and health data, and **standardizing vector data** for beautiful large scale site plans (AutoCAD) and small scale national and global maps (ArcGIS).

PhD student/Teacher/Researcher • U.W. Madison Geography • 2016-now

As a researcher I explored how **health hotspot mapping effects health inequalities** through the use of **statistical and spatial data sets**. I also collaborated with a multidisciplinary team to understand environmental determinants of health risks in Eastern Uganda where I conducted interviews with local farmers (2014-16).

As a teacher I honed **communication skills** that privilege collaboration, dialogue, and visual teaching materials as a way to more effectively lead and communicate. I effectively **lead groups of teachers to successfully collaborate** to create similar learning outcomes and grading benchmarks for Geography 101 across 12 classrooms (2018-23).

EDUCATION

PhD Candidate • U.W. Madison Geography • Cartography & Human Geography • 2016- now
• Subject Matter Expert: Cartography, GIS, Critical Health (4.0)

MA • University of California-Riverside • Religious Studies • 2012-2014 (3.9)

BA • Anthropology & Environmental Studies • Sarah Lawrence College • 2008 (3.7)

RELEVANT SKILLS

Cartography/GIS

I have 5+ years of experience with ArcGIS (& some AutoCad) making maps and site plans. I have extensive experience with finding and developing spatial datasets. I use GIS techniques to find creative solutions and data sources to make awesome maps.

Data Visualization

I have 5+ years working with Adobe Illustrator and Photoshop (some InDesign) to create professional maps, graphics, and visual data representations. I am excellent at using these programs to finish cad and arc produced graphics to clarify the meaning and create more professional and finished graphics.