Jenny Roe Sawyer

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Geospatial Analyst and Cartographer

EDUCATION

Professional Science Masters in GIS, Temple University, 2018

Relevant Coursework:

- Fundamentals of GIS
- Cartographic Design
- Spatial Database Design
- GIS Application Development
- Geovisualization
- Environmental GIS
- Advanced Statistics for Urban Applications
- GIS Ethics

BA in Environmental Studies, Oberlin College, May 2002

PROFESSIONAL EXPERIENCE

Environmental Planning Intern, Delaware Valley Regional Planning Commission, Philadelphia, PA, October 2018 – Present

- Created and designed an interactive story map, using ArcGIS Online, which details the ways future flooding from sea level rise could affect Pennsylvania communities along the tidal Delaware River.
- Researched climate change studies, planned sea level rise scenarios, analyzed flood related data, drafted narrative text, designed cartographic layout of map layers, manipulated data and created map layers in ArcGIS.

GIS Capstone Intern, Women Organized Against Rape (WOAR), Philadelphia, PA, September - December 2018

- Automated a data manipulation and mapping process in Python that allows WOAR to map the zip code locations of their crisis clients, therapy clients, education programs, and outreach events, on a monthly and yearly basis.
- Designed a repeatable workflow and compiled a complete instruction manual, including both manual and automated steps.

Graduate GIS Intern, Philadelphia Water Department, Office of Watersheds, Philadelphia, PA, May - September 2018

- Created a fresh design for PWD's new Watershed Educators Map. Functioned as the primary designer, while working on a design team of other GIS and graphics professionals.
- Revived the stalled "Public Health and Safety Rates" Python modeling project by advising my supervisor on the installation of "sandboxed" Python environments, automating manual steps using ArcPy, troubleshooting errors, researching package dependencies and versioning issues, and editing, modifying and consolidating multiple GIS models and Python scripts into one stand-alone script capable of running the entire PHS Rates model at once.
- Collaborated on creating and documenting the standard operating procedures for editing and updating PWD's Hydrographic Features Dataset.
- Produced maps as needed for various department projects, presentations and annual reports.

Environmental Educator:

- **Schuylkill Center for Environmental Education**, Philadelphia, PA, 2015-2017
- **Riverbend Environmental Education Center,** Gladwyne, PA, 2015-2017
- **Lower Merion Conservancy,** Gladwyne, PA, 2015-2016

SKILLS

GIS Software: ArcGIS Desktop 10.5, QGIS, ArcGIS Online
Cartography: Adobe Illustrator, ArcMap, QGIS
Database Software: PostGreSQL, PostGIS, PgAdmin III
Statistical Software: GeoDa, JMP 13 Pro, R
Programming Languages: Python, R, SQL

Communication:

- Teaching & Facilitation
- Presentation & Public Speaking
- Leadership & Team Building
- Project Coordination and Organization