

AMANDA KMETZ

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GIS professional with a focus on community and a background in urban development and food systems

SKILLS

- ArcGIS Suite
- QGIS
- Python (arcpy, folium, geopy, pandas, sqlite3)
- SQL and Relational Databases (SQLite, PostgreSQL)
- JavaScript, HTML and CSS
- R (raster, sf, tidycensus, tidyverse)
- Microsoft Office Suite
- Customer Service

EDUCATION

Temple University, Professional Science Master's in GIS

August 2018 – August 2020 (Expected)

Philadelphia, PA

- Coursework in Spatial Database Design, Spatial Statistics, Application Development with Python, Web Mapping, Census Data Analysis, Cartographic Visualization, and Remote Sensing
- GPA: 4.0

Boston University, Bachelor's in Linguistics

August 2008 – May 2012

Boston, MA

WORK EXPERIENCE

GIS and Data Analysis Intern, Share Food Program

January 2020 – May 2020

Philadelphia, PA

- Engineered a data management system from scratch using open source solutions to increase data security and integrity
- Built a SQLite database for the program's distribution network to serve as the basis for web content and spatial analysis
- Wrote custom Python applications to support data entry, geocoding and conversion to GIS-compatible formats
- Designed an interactive Leaflet web map to display food pantry locations on the program's website
- Created a technical manual for use by program administration to understand and develop organizational data storage
- Performed demographic analysis to determine optimal locations for emergency food distribution sites during the pandemic

Graduate Student Assistant, Temple University Department of Geography and Urban Studies

September 2019 – Present

Philadelphia, PA

- Managing labs where students of GIS and programming courses can get help with class assignments and personal projects
- Providing GIS education in topics including coordinate systems, cartography, selection queries and geoprocessing functions
- Helping students to utilize Python, focusing on the arcpy package for automating analytical processes with ESRI products

Host/Server, Honey's Sit 'N Eat

December 2018 – Present

Philadelphia, PA

- Greeting incoming guests, manage times and positions on the waitlist, and supporting floor staff functions
- Maintaining excellent communication between the front and back of house, while providing prompt and friendly service

PROJECTS

Philadelphia Pandemic Restaurant Map Application

- Working with a local software development company to build a map application that tracks current restaurant takeout and delivery options during the COVID-19 pandemic, based on crowdsourced data from service industry contacts

GIS Consultant – Archaeological Site Modeling in Armenia

- Providing GIS training and expertise to a PhD candidate in Archaeology at Purdue University, who hopes to model the potential locations of Early and Middle Bronze Age sites in Northwestern Armenia

Precinct Election Return Modelling for Redistricting Analysis

- Using statistical modeling packages in R to predict election results in small census geographies by allocating county-level results to census tracts and block groups using shared demographic indicators