

Alex Stauffer

[Email](#) | [LinkedIn](#) | [GitHub portfolio](#)

EDUCATION

University of Pennsylvania

Master of Urban Spatial Analytics (MUSA)

Expected May 2026

Philadelphia, PA

Temple University

Bachelor of Arts, Anthropology, *with Distinction*

May 2024

Philadelphia, PA

TECHNICAL SKILLS

- **Programming & Analysis:** Python (pandas, NumPy, scikit-learn, GeoPandas, rasterio, Selenium), R (tidyverse, dplyr, sf, tidycensus), Git/GitHub
- **GIS:** ArcGIS Pro (Spatial Analyst, ModelBuilder), QGIS, raster modeling, suitability analysis
- **Visualization:** Plotly, Matplotlib, Seaborn, Altair, Quarto, Leaflet, Astro/Netlify

PROJECTS

Philadelphia Neighborhood Accessibility Character Map

Fall 2025

University of Pennsylvania

Philadelphia, PA

- Created a composite neighborhood accessibility index for Philadelphia using integrated mobility, amenities, environmental, and socioeconomic indicators as a team of 2.
- Developed an interactive web map, reproducible Python workflow, and a website hosted on MkDocs to evaluate neighborhood-level variation in accessibility and component tradeoffs across the city.
- Documented limitations related to demographic data harmonization and reflected on implementation constraints in the final project site.

Temple University Ambler Campus: Supervised Change Detection ArcGIS Pro

Fall 2025

University of Pennsylvania

Philadelphia, PA

- Accessed Google Earth Engine and captured 1-meter resolution images of the Temple University Ambler Campus before and after the tornado in Fall 2021.
- Performed supervised classification through Image Analyst to identify vegetation loss, recovery, and calculate the overall change using NDVI analysis.

RESEARCH & CONSULTING EXPERIENCE

Geography of Healthcare Access in South Africa (MUSA Practicum)

Spring 2026

University of Pennsylvania | *In collaboration with the Distributed AI Research Institute*

- Analyze spatial alignment between population distributions and pharmacy access across South Africa to assess healthcare accessibility under the National Health Insurance Act (2024) with the guidance of DAI researchers.
- Build and validate a spatial database of pharmacies using Google Places API, Google Geocoding API, Snowflake AI, and the web-based data sources in the absence of a national registry with a team of 4.

Wharton Impact & Sustainability Consulting (WISC)

Spring 2026

University of Pennsylvania | *In collaboration with Sensegrass*

- Conduct data-driven consulting analysis for an impact-focused startup, translating findings into strategic recommendations with a team of 3 undergraduate students.

ADDITIONAL EXPERIENCE

Practicum – Temple University Anthropology Laboratory and Museum

Oct 2023 – May 2024

Temple University

Philadelphia, PA

- Digitized a handwritten paleo-indigenous catalogue into a searchable database with a team of 7 students.