Thomas Fish

http://geo.fish
@ThomasDFish • tom@geo.fish

Skils

ESRI ArcMap and ArcGIS Pro – Expert; use every day

QGIS – Intermediate; use once a month

Python – Intermediate; use once a month

SQL – Basic; use inside GIS software every day

Stata SE – Beginner; use bimonthly

LaTeX– Intermediate; use 2-3 times a year

Javascript – Basic; use to make maps in LeafletJS

LeafletJS – Intermediate; use 2-3 times a year

Experience

Content Creator at Maps for the Getaway   December 2020–Present

- Wrote blog posts about geography, technology, politics and culture.
- Performed geospatial analyses using data from open sources (OpenStreetMap, State Governments, Local Governments, and Federal Agencies).
- Created maps to help answer questions about public policy.

Geospatial Technologist at The DHS Program (ICF)   April 2017–September 2021
Geospatial Analyst from April 2017 to March 2020; promoted to Geospatial Technologist

- Oversaw The DHS Program's public database of sub-national administrative boundaries by researching and compiling borders from country and open sources (OpenStreetMap, Humanitarian Data Exchange, GADM, etc.); coordinated with contractors to push boundary data to our API, mobile app, and website on survey release.
- Produced distance estimates between households and their agricultural plots using OpenStreetMap data and QGIS.
- Extracted a set of standardized geospatial covariates, sourced from disparate datasets, for 114,394 points. Wrote the python code to move data between processing steps and produce the final output.
- Facilitated 3 workshops (1 in-person and 2 online) teaching public health and statistics agency professionals in Sub-Saharan Africa how to perform GIS analyses and produce maps in QGIS.
- Conducted research on using geospatial data to improve data quality for household surveys in low- and middle-income countries.
- Designed and produced publication-quality maps for 35 survey reports, 11 research reports, and 2 atlases in English, French, Russian, and Portuguese.
- Processed GPS location data for publication for 15 surveys of low- and middle-income countries by verifying interview sites and anonymizing the data by following a published methodology.
- Coauthored 3 scholarly research reports and 1 peer-reviewed journal article using geospatial techniques to study public health.
- Wrote a light-weight javascript web mapping application in Leaflet JS for use in low- and middle-income countries.

GIS Analyst II at Washington College GIS Program   October 2015–March 2017

- Produced time-sensitive maps and other visual geography-related products for law-enforcement agencies in Maryland.
- Supervised large and small teams of student analysts working on disparate analyses for clients in law enforcement, the intelligence community, non-governmental organizations, and local governments.
- Created the web map portion of a larger web portal with the ESRI JavaScript API to securely display automobile collision data to 70 law enforcement and traffic safely agencies.
- Maintained the Maryland Offender Management System, an enterprise GIS application that was used by 124 law enforcement agencies in Maryland.
- Wrote Python scripts to automatically pull offender photos for weekly products based on ID numbers.

Junior GIS Analyst (Intern) at Washington College GIS Program   August 2011–May 2015

Education

B.A., Anthropology and Philosophy   May 2015
Washington College (Chestertown, MD)