

Aaron Gaines

aaron.m.gaines@gmail.com | [linkedin.com/in/aaron-m-gaines](https://www.linkedin.com/in/aaron-m-gaines) | aarongaines.github.io

Work Experience

Research Assistant

Sep 2021 - Aug 2023

California State University Northridge

- Researched, developed and implemented a social vulnerability index of socioeconomic data using Python, ArcPy, and ArcGIS Online.
- Extracted and analyzed groundwater quality data for ranking hazardous sites using REST API, Python and ArcGIS Pro.
- Interpreted satellite imagery and digital elevation models to edit and create hydrographic features in the USGS Watershed Boundary Dataset (WBD) using custom tools in ArcMap 10.
- Provided quality control for hydrographic features created and edited by team members for the USGS National Hydrography Dataset (NHD).
- Helped lead the process to update river gauging station data in the NHD for the Southern California area.

GIS Intern

Oct 2019 - Aug 2023

California State University Northridge

- Interpreted satellite imagery and digital elevation models to edit and create hydrographic features for the USGS National Hydrography Dataset (NHD) using custom tools in ArcMap 10.
- Helped define new rules for editing and creating hydrographic features in the NHD for arid areas.

Education

Certificate, Data Science

April 2023

UCLA Extension

BA, Geography-Geographic Information Science

May 2021

California State University Northridge

AS, Land Survey

June 2019

College of the Canyons

Skills

ArcGIS Pro, ArcMap, QGIS, Python, SQL, Excel, VSCode, Python, Git, GitHub, Data Analysis