Luis Garcia

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Education

- **University of Utah** (*Aug 2019 - Present*)
  MSc, Geography
- **California State Northridge** *(Aug 2014 – Aug 2018)*
  BA, Geography – Geographical Information Science; GPA: 3.78

Skills and Relevant Coursework

- Coding Languages: Python, SQL, Javascript-Jquery, HTML, CSS, R

- Software: ArcMap, ArcPro, QGIS, ArcSDE, Microsoft Access, Pix4D, SPSS, GeoDa, R Studio

- Relevant Coursework: Advanced GIS, Field Studies – Surveying Methods/Drones, Spatial Analysis, Spatial Analysis in Human Applications, Web Applications GIS, Senior Capstone Research, Python for ArcGIS, Remote Sensing, Advanced Geographical Data Analysis

Work Experience

GIS Analyst / Graduate Assistant

DIGIT Lab / University of Utah (Aug 2019 – Present)

- Provide geographic data services to the state and federal government agencies.
- Assisted in capturing more than 20 spectral signatures from invasive plants as part of a bigger project to classify the invasive species.
- Characterizing active wildfire from 3 airborne imagery datasets using shortwave infrared wavelengths.

JPL Intern

Jet Propulsion Lab – La Cañada Flintridge, CA (May 2020 – August 2020)

- Contributed to the literature on active wildfire characterization utilizing remote sensing techniques.
- Utilized various python packages to compute figures, graphs, and maps that represent the intensity of wildfires.

GIS Specialist

Los Angeles City - Bureau of Sanitation / EPCM – RMS (May 2018 – Aug 2019)

- Published a web map and feature service of locations of Non-billing facilities for truckers to utilize within Arc Collector.
- Gave 2 workshops to truckers from the Ambassador Program group regarding their web-map application.
- Utilized SQL and python to extract and analyze geographic data for tracking the tonnage of refuse, yard trimmings, and recycle from various levels of local government with database management systems such as Microsoft Access.
- Produced district yard route maps simultaneously by utilizing Data Driven Pages (DDP).
- Assisted in Environmental Justice goals 5.1a-5.1b in mapping and creating web maps to monitor the spatial distribution of the organization's activities, projects, and facilities relative to environmental disadvantaged neighborhoods.

GIS Student Worker

Los Angeles City – Port of Los Angeles (Harbor Department) (Aug 2018 – May 2018)

- Created a Geodatabase of the Metro bike share station for the Port of Los Angeles database, and posted a story map (ArcGIS Online) displaying the history of the Metro Bike Share program in Los Angeles.
- Produced maps and data for clients from multiple departments of the Port of Los Angeles Harbor Department.

GIS/GPS Data Collector

California State Northridge (Sept 2017 – Nov 2017)

- Collected geographic and geometric data of trees within the campus that supported the database by utilizing ArcCollector.
- Identified more than 50 species of trees when names were not stored in the database.

Trail Crew Intern & GIS/GPS Worker

Student Conservation Association (Grand Teton NP, Wyoming) (May 2017 – Aug 2017)

- Lead bi-weekly safety meetings with crew members for 20 minutes.
- Worked on bridge projects such as the following: Jenny Lake, Emma Matilda Lake, and Leigh Lake.
- Utilized GPS devices to map out 2 unofficially recognized trails and mapped them out in ArcMap.
- Assisted Park Biologists in collecting Water samples from lakes within the park to monitor pH levels.

GIS Intern

Center for Geographical Studies (California State Northridge) (Feb 2017 – May 2017)

- Digitized 6 historical maps that displayed wells, and fault lines of the Santa Barbara region.
- Edited, and created data that abided by the organization's standards.

GIS Student Research Assistant

California State Northridge (Mar 2016 – Aug 2016)

- Geocoded 32 farmers' market locations within Los Angeles, and the origin of the vendors that attended those markets.
- Performed Spatial Queries, and Network Analysis to perform statistics for the number of vendors per county in California.