

LAUREN STRUG

CONTACT

(319) 333-6016

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SKILLS

*Spatial analysis and spatial **statistics***

*Experience building and maintaining **PostgreSQL** databases with **PostGIS** and **Python ETL***

Arcpy**, field mapping, cursors, parallelization, building open source and commercial **custom python tools

*Advanced static and web map **cartography** skills, annotations, data-driven pages*

*Experience integrating ERP and CRM databases with **ArcSDE** environment*

Comfortable working with command line, Regex, PSQL, HTML5/CSS, and JavaScript

***Demographic** analysis and research*

Non-point nitrogen pollution [research](#)

Experience with large environmental datasets

EDUCATION

Master's of Geographic Information Science - University of Minnesota

Dec '19 GPA: 4.0

President of GIS Student Organization
Awarded MN GIS/LIS Graduate Student Scholar 2nd Place Oct '19
Awarded Esri UC Student Assistantship

B.S. Geology - Beloit College, WI

May '15 GPA: 3.83

EXPERIENCE

March '20 – Present **GIS Programmer**
CCSC at University of California Los Angeles

- Development, administration, and maintenance of the [UCLA Energy Atlas](#) PostgreSQL database
- Data analysis, processing, cleaning, testing, and quality assurance with PostgreSQL, PostGIS, Python, and Linux.
- Create detailed documentation on development and processing

Aug '18 – Jan '20 **Teaching Assistant – Cartography and Intro GIS**
University of Minnesota – Twin Cities

- Provided technical support for GIS projects, software and data collection
- Built lesson plans, map critiques, ArcGIS Pro and ArcGIS Online assignments for Principles of Cartography with Adobe InDesign

May '19 – Sept '19 **IT GIS Intern**
City of Brooklyn Park, MN

- Delivered public digital and paper map products and applications
- Automated ArcGIS enterprise maintenance with Python, Arcpy, and SQL Server across non-GIS databases
- Redefined the design of city ArcGIS Online web apps with Web AppBuilder, Arcade expressions, and custom widgets
- Built Geocortex application with HTML and CSS
- Assisted ArcGIS Desktop/Pro updates and ArcGIS Server update process

May '19 – June '19 **Geospatial Analyst & Cartographer**
Visible City, St Paul MN

- Analyzed business impact of proposed traffic change with spatial analysis in QGIS
- Acquired business addresses, demographic information, parcels, transit data, boundaries, etc.
- Formatted and cleaned data for geocoding, and produced report quality map products

March '18 – Jan '19 **Student Worker Para-Professional**
Minnesota Pollution Control Agency

- Contributed to state-wide public environmental geospatial application
- Researched, analyzed, and georeferenced hundreds of current and historic well log data for superfund sites
- Reported standard procedure for data collection, formatting, and metadata
- Performed data quality assurance for laboratory analytical data in ArcGIS Enterprise, EQuIS, and Oracle