

Alissa V Stark

MS Student | Cartography | GIS Programming

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PORTFOLIO

<https://avstark-gis.github.io/avstark-gis-Portfolio/>

EDUCATION

Master of Science in GIS and Web Map Programming

The University of Wisconsin-Madison

Expected Completion December 2022

- Created interactive maps using JavaScript with D3 and Leaflet
- Analyzed and updated relational databases using PostgreSQL statements and QGIS
- Made maps and infographics with ArcGisPro and ArcMap in conjunction with Adobe Illustrator and Photoshop
- Selected as the **2021 Barbara Bartz Petchenik Memorial Award in Cartographic Design**, 2nd place (Graduate level) winner <https://avstark-gis.github.io/avstark-gis-Portfolio/farmland.html>

Bachelor of Science

Saint Olaf College, Studio Art Major

GIS Fundamentals Certificate

The University of Wisconsin-Madison

TECHNICAL SKILLS

GIS/Cartography

ArcGIS Pro | ArcMap | Adobe Illustrator | Adobe Photoshop | QGIS
Leaflet | Mapbox Studio | Google Earth Engine | MS Office

Programming

JavaScript | Unix Shell | SQL | HTML | CSS
Familiar with R | Node | Python | GDAL

PROFESSIONAL EXPERIENCE

NASA DEVELOP Program | Science Systems and Applications Inc

<https://appliedsciences.nasa.gov/what-we-do/capacity-building/develop>

Geospatial Researcher | September 2022 - November 2022

- Participated in DEVELOP-led Software Carpentry courses for R, UNIX Shell, and Google Earth Engine.
- Worked with the team to conduct a feasibility study for using NDVI as a proxy for seep and spring locations.
- Processed imagery from Landsat8 OLI within Google Earth Engine to create Normalized Difference Vegetation Index for Bryce Canyon National Park.
- Exported NDVI data from Google Earth Engine and created multidimensional rasters within ArcGIS PRO to enable multidimensional analysis.
- Created Mann-Kendall trend maps for both statistically significant positive and negative trends.
- Created a static map for the study area used within the project technical paper, presentation, and poster.

- Helped produce visual communication materials for the project.

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Center for Health Disparities Research at the University of Wisconsin-Madison School of Medicine and Public Health

<https://chdr.wisc.edu/>

Student Worker | Geospatial Support | October 2021 - Present

- Preparatory training to provide geocoding and geospatial support for The Neighborhoods Study.

Research Intern | Geospatial Support | Start Date: January 2023 - Expected: June 2023

- Provide geocoding, internal quality control, data entry, and geospatial support for The Neighborhoods Study.
- Work with the CHDR team to create and expand the geospatial products available within the internal data platforms.

University of Wisconsin-Madison Cartography Lab

<https://geography.wisc.edu/cartography/>

Web Cartographer | Tech Lead | October 2021 - Present

- Develop customization of a mobile-first geospatial toolkit (Mapeo/Mapbox) for a UN-funded research project in Adamawa, Nigeria.
- Adapt project to meet the needs of Nigerian pastoralists in their efforts to strengthen conflict resolution.
- Listen to concerns and answer questions about the technology used in the project.
- Create instructional documents and videos as well as make myself available through email, message chats, and video calls for guidance regarding the installation or use of the app.
<https://github.com/avstark-gis/avstark-gis-MapeoDocs>
- Use GDAL to convert Mapeo GeoJSON entries into PostGIS database.

Web Cartographer | February 2022 - May 2022

- Configured a draft of an interactive Leaflet map for the UW-Madison History Department.
- Worked with the client through projected user scenarios and desired functionalities and returned options for the map within Leaflet/Javascript environment.

Web Cartographer | February 2022

- Created a Leaflet prototype of North Dakota Oral History project used to outline project goals for the client.

Pastry Chef | Lead Baker

<https://www.linkedin.com/in/alissa-v-stark-5b106b16/>

Over 15 years of experience in various roles

Create new systems and strategies for efficiency.

- Demonstrate the ability to see the big picture without losing the details.
- Establish methods to improve recipe accuracy, shrink tracking, production efficiency, and training procedures.

- Eagerly take on challenges and see a project through to its completion.
- Promote teamwork that emphasizes trust and utilizes employees' unique strengths.

Day-to-Day Responsibilities

- Support the chef by maintaining a strong bakery team, developing menus, implementing systems, managing food inventory, and ensuring food safety.
- Create numerous from-scratch recipes, including options for those customers with dietary concerns or limitations.
- Draft daily workflow outlines, training systems, production tools, and waste tracking systems.