

Sadie Nguyen

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LinkedIn / Portfolio

Geoscience Experiences

GIS Manager

Knife River Corporation, Northwest Region (Oregon and Washington) – Tangent, OR

September 2023 – Present

- Designing, developing, and maintaining a regional GIS program to support various projects.
 - Creating region-wide standards and user guide for users to understand GIS data management.
 - Creating map applications and datasets to support various team projects.
- Teaching team members to use GIS applications, expanding the number of GIS users, in and out of the field.
 - Collaborating to create a company wide GIS conference in February 2024. This event will consist of new user trainings, new application use demonstrations, current GIS support, and more.
- Using Smartsheet's to communicate various project status's, share datasets, and additional information.
- Implementing various forms of web services from outside organizations to support our regional analysis.
- Acting as local technical support for GIS users in the region.

Master of Science in Geospatial Technologies

University of Washington Tacoma

September 2022 – August 2023

- Multi-hazard web map application for the Islands of Hawaii for community hazard preparedness.
- Intro to Geospatial Technology
- Web-Based GIS
- GIS Customization and Automation
- Mobile Geospatial Application Development
- Cartography and Data Visualization
- Environmental Planning Applications

Surface Water Management GIS Extra Hire

Pierce County, WA

May 2023 – September 2023

- Delineating USGS HUC-16 Watershed Boundaries using ArcPro with DEM and flow datasets.
- Using Field Maps to check flow directions of MS4 stormwater systems.
- Partnering with WA Department Fish and Wildlife to care for growing baby oysters.

Transportation Engineering Intern

City of Renton, WA

September 2022 – August 2023

- Using GIS to create, maintain, and visualize Public Works, Transportation datasets.
 - Leading the effort on the Comprehensive Walkway Plan (Missing Sidewalks Project).
 - Renton School District map showcasing their schools and facility sites.
 - Mapping Fiber Optic networks and Luminaire structures for maintenance services.
 - Additional efforts with SANDs, the Transportation Improvement Plan, consultants, and more.
- Deploying, collecting, and assisting in the training of Remote Permanent Count Systems.

Bachelor of Science in Geology

University of Hawai'i Hilo

August 2020 – May 2022

- Surface Water Hydrology
- Hawaiian Geology
- Structural Geology
- Coastal Geology
- GIS for Geology
- Geological Oceanography
- Geomorphology
- Mineralogy & Petrology
- Volcanology
- Sedimentary Processes
- Communicating Science
- Writing Science & Technology

Geology Research Assistant

University of Hawai'i Hilo

February 2022 – May 2022

- Researching tephra deposits on the Big Island, Hawaii for agricultural black cinder, finding prospective quarries.
 - Creating, analyzing, visualizing, and organizing data through ArcMap and Microsoft Office applications.

Crack Team

University of Hawai'i Hilo and the United States Geological Survey – Hawaiian Volcano Observatory

August 2020 – May 2022

- Collecting geodetic data on cracks and vertical deformation throughout Hawai'i Island, starting in the 1960s.
- Presenting Author for 'Leveling survey of Koa'e Fault System during the 2021 Kilauea dike intrusion' abstract and poster at the 2022 Geological Society of America Joint Cordilleran and Rocky Mountain Section Meeting.
- Featured on the front page of the Hawaii Tribune Herald, Sunday November 21, 2021, Newspaper.

Associate of Arts in Geology

Highline College, Running Start

June 2018 – June 2020

- Seismology
- Physical Geology
- Shaping the Earth
- Puget Sound Geology
- Puget Sound Landslides
- Oceanography
- Botany
- Environmental Science
- Persuasive Research Writing

Community Experiences

Alumni Representative

University of Hawai'i Hilo and Center for the Study of Active Volcanoes

August 2023 – September 2023

- Talking to GIS students about my coursework, work experience, and tips on getting into the GIS world.
- Attending an elementary school science night to teach younger students and families about Geology.

CARES Geology Lab Safety Assistant

University of Hawai'i Hilo

August 2020 – May 2022

- Cleaning and sanitizing classrooms, labs, and additional resources to decrease the spread of COVID-19.

Geology Laboratory Assistant

University of Hawai'i Hilo

February 2021 – December 2021

- Assisting in the redesign of the UH Hilo Geology website to improve community usability and resources.
 - Created a student and alumni panel to share Geology experiences at the University of Hawai'i at Hilo.

Barista Partner

Starbucks Coffee Company

64th and Meeker, Kent, Washington, September 2018 – June 2020

Downtown Hilo, Hawaii, February 2022 – August 2022

Board of Director

Kent Youth and Family Services

April 2017 – June 2020

Conferences and Trainings

- Esri User Conference – San Diego California – July 2023 – UW Representative
- WAGISA Conference – Tacoma, Washington – June 2023 – Moderator and Attendee
- Esri Survey123 Training – Olympia, Washington – February 2023
- WA ITE Safety Conference – Renton, Washington – November 2022
- GSA Joint Section Meeting – Las Vegas, Nevada – March 2022 – Presenting Author
- Imagery in Action – Esri MOOC – November 2023
- GIS for Climate Action – Esri MOOC – December 2023

Ongoing Memberships

- The Geological Society of America (GSA)
- Washington GIS Association (WAGISA)
- American Association of Geographers (AAG)
- Oregon & Southwest Washington Chapter of URISA (ORUISA)

Skills and Additional Experiences

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| • Microsoft Office Suite | • ArcPro & ArcMap | • Audio-Visual Equipment |
| • Adobe Applications | • ArcGIS Arcade | • Cash & Credit Handling |
| • Smartsheets | • Esri ArcGIS Applications | • Food & Drink Handling |
| • HTML, CSS & JavaScript | ◦ Dashboards | • Science & Community Communications |
| • Python Language | ◦ StoryMaps | • Data Collection & Analysis |
| • Mapbox & Leaflet | ◦ Field Maps | • Customer Service |
| • Anaconda & Jupyter Notebook | ◦ Survey123 | |
| • SQL Databases | ◦ WebBuilder | |
| | ◦ Web AppBuilder | |

More About Me...

- I'm known for always baking chocolate crinkle cookies or garlic and cheese focaccia.
- I love the ocean, something about the salty blue abyss is home for me. I'll never live in a landlocked place.
- I wanted to study Geology because I wanted to know the science behind touching lava.
- While traveling, I collect local maps as souvenirs to inspire continuous travel and cartographic creativity.
- One day I would like to be a booth at a farmers market, for now I am just an active attendee.