

Sadie Nguyen

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Kent, Washington

Education

Master of Science, Geospatial Technologies

University of Washington Tacoma

9/2022 – Present (capstone graduation in August 2023)

- Intro to Geospatial Technology
- Web-Based GIS
- GIS Customization and Automation
- Mobile Geospatial Application Development
- Practicum I: Planning and Design
- Cartography and Data Visualization
- Environmental Planning Applications
- Practicum II: Implementation

Capstone – By using GIS applications, hazard assessment datasets, and historical hazardous event records provided by the Hawaii GIS Program, I will be creating an application that allows community members of the Hawaiian Islands to insert a location onto a map and learn about their local hazards. The hazard assessments included will showcase their locations' history and current susceptibility to flooding, tsunamis, fires, and lava flows. As a result of using this platform, the community will increase their knowledge to create hazard awareness and by doing so, help them become further prepared for their local hazardous events moving forward.

Bachelor of Science, Geology

University of Hawai'i Hilo

8/2020 – 5/2022

- Geology of Hawaiian Islands
- Deformation of the Earth
- Coastal Geology
- Volcanology
- Earth Surface Processes
- Surface Water
- Minerology
- GIS for Geology
- Geological Oceanography
- Petrology
- Sedimentary Processes
- Communicating Science
- Writing for Science and Technology
- Calculus One
- Calculus Two
- General Physics and Lab One: Mechanics
- General Physics and Lab Two: Electricity and Magnetism
- Dean's List Spring 2021

Associate of Arts, Geology

Highline College, Running Start Program

6/2018 – 6/2020

- Earthquake! Seismology
- Physical Geology
- Shaping the Earth
- Puget Sound Geology
- Puget Sound Landslides
- Introductory to Oceanography
- Introductory to Plants, Botany
- Introductory to Environmental Science
- General Chemistry One and Laboratory
- General Chemistry Two and Laboratory
- English Composition
- Research and Persuasive Writing
- Introduction to Communications
- General Psychology
- Introduction to Political Science
- Introduction to Ethics
- Digital Photography
- Yoga
- Total Fitness
- Vice-Presidents Honor Roll Fall 2019
- Women in Science and Engineering (WISE)

Employment and Extracurriculars

Surface Water Management GIS Extra Hire

Pierce County

5/2023 – Present (estimated end date of August 2023)

- USGS HUC-16 Watershed Boundary Delineations using ArcPro and DEM elevation data.
- Going into the field to check mapping of storm water drain systems connected to outfalls.
- Partnering with WA Department of Fish and Wildlife to care for growing baby oysters.

Transportation Engineering Intern

City of Renton

9/2022 – Present (estimated end date of August 2023)

- Collecting, presenting, and maintaining missing sidewalk GIS databases to create a multimodal future.
- Creating, presenting, and maintaining work products for the Comprehensive Walkway Plan.
- Editing and working with consultants to produce final steps in the Comprehensive Walkway Plan.
- Collecting and deploying Remote Permanent Count Traffic Systems.
- Creating and maintaining school location maps for the Renton School District.
- Assisting with the Safer Access to Neighborhood Destinations (SAND) program.
- Creating Survey123 surveys for the community outreach programs conducted by the SAND program.
- Updating and maintaining a bridge GIS database.
- Creating and maintaining a streetlight luminaire GIS database.
- Creating a map to showcase the city's 2023-2029 Transportation Improvement Plan (TIP) projects.

Geology Research Assistant

University of Hawai'i Hilo

2/2022 – 5/2022

Researching tephra deposits on Big Island, Hawaii for agricultural black cinder.

- Analyzing aerial photographs to discover if any new tephra deposits were created post the 2018 Kilauea eruption.
- Data entry, organization, and transport between Esri ArcGIS and Microsoft Office applications.
- Creating GIS layers, shapefiles, and projections based off tephra data qualities in ArcMap.
- Directing team members to the tephra deposit locations to collect sample data to test tephra quality.
- Projecting and presenting created layers to the team in Google Earth.

Crack Team

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

8/2020 – 5/2022

- Collecting geodetic data on vertical deformation and cracks throughout Hawai'i Island. Research conducted since the 1960s for the United States Geological Survey – Hawaii Volcanoes Observatory (USGS-HVO).
- Presenting Author for the 'Leveling survey of Koa'e Fault System during the 2021 Kilauea dike intrusion' abstract and poster at the 2022 Geological Society of America (GSA) Joint Cordilleran and Rocky Mountain Section Meeting in Las Vegas, Nevada in March 2022.
- Featured in the front page of Hawaii Tribune Herald, Sunday November 21, 2021, Newspaper.

CARES Geology Lab Safety Assistant

University of Hawai'i Hilo

8/2020 – 5/2022

- Create an environment that allows students to decrease their risk of catching COVID-19 (coronavirus) during in-person academic courses and activities.
 - Cleaning classrooms, laboratories, doors and other geology department resources to ensure sanitization.

Geology Laboratory Assistant

University of Hawai'i Hilo

2/2021 – 12/2021

- Providing information and connecting with the geology community to conduct a website that is suitable for the community, prospective students, current students, parents, and more.
 - Created a student and alumni panel, allowing them to share their experiences in UH Hilo Geology.

Barista Partner

Starbucks Coffee Company, Downtown Hilo

2/2022 – 8/2022

Starbucks Coffee Company, 64th & Meeker

9/2018 – 6/2020

Board of Director

Kent Youth and Family Services

4/2017 – 6/2020

- Understanding and developing programs and services that help the family and youth of the community. Providing a youthful and student standpoint while serving on the Board of Directors.

Past and Upcoming Trainings and Conferences

- June 13-15, 2023 - WAGISA Conference - Tacoma, WA
- July 10-14, 2023 - Esri User Conference - San Diego, CA
- February 1, 2023 - Esri Survey123 Training - Olympia, WA
- November 10, 2023 - Washington ITE Safety Conference - Renton, WA
- March 15-17, 2022 - The Geological Society of America (GSA) Joint Section Meeting - Las Vegas, NV

Skills and Experiences

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|---------------------------------|--------------------------------|---------------------------------|
| • Microsoft Office Applications | • Esri ArcPro | • Data Collection, Analysis and |
| • Adobe Applications | • Esri ArcGIS Desktop | Projection Presentations |
| • HTML | • Esri ArcGIS Online | • Science and Community |
| • CSS | • Photography, Videography and | Communications |
| • JavaScript | Audio-Visual Equipment | • Food and Drink Handling |
| • Python | • Cash and Credit Handling | • Customer Services |

Hobbies, Interests, etc...

- I'm known for my homemade cookies and garlic focaccia.
- I collect maps as souvenirs to represent the places I've traveled to.
- I wanted to study geology because I wanted to know what happened when someone touched lava.
- My favorite rock is Orthoconglomerate, an oceanic based sedimentary rock.
- My favorite minerals are Micas, specifically biotite and muscovite.
- I moved to Hawaii because I hated the sun and the sand, I wanted college to be uncomfortable.
- My favorite fruit is Lilikoi (passion fruit), specifically when it is in a dessert bar or cheesecake.