

Joanna Greenberg

Currently living in Washington, DC, open to relocation

U.S. Citizen | 206-321-7193 | joanna.greenberg18@gmail.com | GIS portfolio: www.jggeospatialportfolio.com

I am a passionate geospatial professional with expertise in ArcGIS Pro, spatial analysis, and technical consulting. I have experience supporting federal agencies, conducting advanced sustainability research, and developing clean-energy solutions.

Relevant Experience

Sustainable Energy Analyst

Green Powered Technology

Arlington, VA

May 2024 – Present

- Worked as a clean energy and technology researcher on federal government contracts with clients such as the Department of Homeland Security (DHS), U.S. Trade and Development Agency (USTDA), and U.S. Agency for International Development (USAID).
 - Helped to organize and lead activities on a federal energy program, like monthly presentations on agency energy reporting, research and assessments on presidential executive orders and news, and data anomalies checking.
 - Contributed as an author on an over 200 page paper on the economic viability of various renewable energies.
 - Wrote over twenty in-depth reports about the transportation sectors - the state of public transit, vehicle emissions laws, the commonness of electric vehicles, and more - in nine countries across Asia and provided recommendations for policy-making and programs that promote clean transportation systems.
- Performed complex spatial analyses and created easy to understand, visually appealing maps on ArcGIS Pro based on client needs.
 - I conducted visibility assessments on proposed renewable energy power plant projects to be built in Maryland. One proposal was for a 5 megawatt solar PV electricity generation facility, of which I had to determine where the solar panels would be visible to the public. This required the combining of several elevation models, raster layer creation, and the use of a range of other geoprocessing tools.
 - Played a significant role in my company purchasing ArcGIS Pro and the relevant licenses necessary for the work needed from the clients. This required researching and becoming familiar with Esri products.
- Assisted in business development activities.
 - I wrote past performance reports, helped to compile company details for Requests for Information or Proposals, and attended networking events on behalf of the company.
 - Supported an internal initiative to determine what artificial intelligence technologies would be best for company use.

Open Source GIS Analyst

YouthMappers Validation Hub

Washington, DC

March 2022 – May 2023

- Validated and edited open source data on OpenStreetMap (OSM). I have almost 3,000 saved edits – contributing map elements all over the world to promote positive change for people in those areas.
 - I was part of a team that ensured high quality vector data in Sierra Leone. This information was used to determine optimal power pole locations to give more people access to electricity.
- Mentored and supervised 4 several-months long projects worked on by international university students for their local communities.
 - I oversaw a group of students at the University of Panama who were mapping nearby areas to establish where plumbing pipes could be placed. I wrote them an informational document in Spanish that demonstrated how to fix or prevent errors I had seen in their work as they mapped.
- Led six 2.5-hour virtual trainings for international participants on Java OSM software usage, tools, and more.
 - I trained multinational audiences – often from Africa, South America, and North America.
- Created documents to be used by the greater YouthMappers organization.
 - I created multiple presentations and documents to teach new mappers how to use specific mapping tools. All work was created to fit the organization-wide formatting.

Education

George Washington University

Bachelor of Science in Environmental and Sustainability Science, Minor in GIS

Washington, DC

August 2021 – December 2023

- GPA: 4.0
- Outstanding Academic Achievement Award 2023
 - Presented to upperclassmen students who are the top 2% of their schools
- Columbian College of the Arts Dean's List Fall 2021, Spring 2022, Fall 2022, Spring 2023
 - Presented each semester to students with >3.75 GPA
- Captained the club ultimate frisbee team

University of Auckland

Certificate of Proficiency Overseas

Auckland, New Zealand

July – December 2023

- Selective program with limited space. I was reviewed by both GW and UoA for admittance
- Awarded GW Exchange Program Scholarship, described on the study abroad website as competitive
- Became a captain of the university club ultimate frisbee team after only being there for one month

University of Miami

Undergraduate

Coral Gables, Florida

August 2018 – December 2019

- Awarded President's Scholarship (merit-based)

Skills

Technical Proficiencies:

(GIS) ArcGIS Pro, QGIS, JOSM, PostGreSQL, Geoda, OSM, ERDAS Imagine
(Coding languages) Java, Python, SQL, R

Languages:

Conversational Proficiency in Spanish (Could produce documents or do well-practiced presentations)

Certifications:

Graduate Certificate in GIS, Institutional Review Board (IRB), Open Water Scuba

Other:

Presentation-giving, public speaking, writing, efficiency, timeliness, interpersonal communication, quick learning, ability to bridge technical solutions with business needs

Relevant University Coursework

(GIS) Intro. GIS, Intermediate GIS, Spatial Analysis, Intro. Remote Sensing, Open-Source GIS;

(Computation) Intro. Java, Intro. Python, Biological Statistics (R);

(Environmental) Arctic Systems, Marine Systems, Geomorphology, Urban Sustainability, Geology of Energy Resources, Global Climate Change and Sea Level Rise, Biogeography;

(Labs) Cellular Biology, University Physics, Organism Biology, General Chemistry I & II, Physical Geography.