

## Joanna Greenberg

206-321-7193 | joanna.greenberg18@gmail.com

Dedicated GIS professional skilled in cartography, spatial modeling, and environmental analysis. Experienced in applying geospatial methods to sustainability, conservation, and energy planning projects for federal, state, and international programs. Adept at translating complex data into clear, story-driven maps that inform decision-making and advance science-based solutions.

**George Washington University, 2021 - 2024. *Bachelor of Science in Environmental and Sustainability Science, Minor in GIS. Summa Cum Laude.*** Outstanding Academic Achievement Award (presented to students who are the top 2% of their schools) & Dean's List every semester (presented to students with >3.75 GPA).

GIS Tools: ArcGIS Pro, ArcGIS Online, QGIS, ModelBuilder, Java OSM;

Programming: Python, SQL, R, Java;

Spatial Analysis: Geoprocessing, DEM/raster analysis, visibility modeling, spatial storytelling;

Visualization: Cartography, data visualization, map production, Excel modeling;

Familiarity with: Adobe Illustrator, Tableau, ERDAS Imagine, SharePoint;

Languages: English (native), Spanish (elementary).

### Experience Highlights

#### Energy Analyst

May 2024 – June 2026

Green Powered Technology

Arlington, VA

Support federal and state clients by evaluating clean energy technologies, conducting GIS analyses, and producing decision-supporting maps and reports. Develop cartographic products to visualize land-use, energy, and environmental data across projects and frequently assess environmental impacts of energy infrastructure—experience relevant to conservation and climate-resilient landscape planning. Project highlights:

#### *Technical Specialist – Federal Department Energy Management Program, 2024–2026*

- Lead geospatial assessments of federal facilities to identify opportunities for clean energy deployment, conservation, and efficiency.
- Design cartographic products and spatial analyses that visualize infrastructure, land use, and sustainability trends for federal reports and leadership briefings.
- Translate technical findings into accessible maps, graphics, and reports that communicate environmental data to federal agencies.
- Support federal energy management initiatives aligning with Executive Orders on resilience and climate action.
- Develop energy usage models and performance evaluations informing program planning.

#### *Research Assistant – State Power Plant Research Program, 2024–2026*

- Conduct renewable energy siting and visual impact analyses using ArcGIS Pro, DEMs, and raster/vector modeling to inform state-level permitting and community engagement.
  - *Example*: Modeled visibility of a proposed 5MW solar PV plant considering elevation, vegetation, and obstructions; produced maps informing permitting, community engagement, and energy planning initiatives.
- Develop data-driven maps supporting decision-making on energy, visibility, and land-use planning—skills transferable to conservation planning and landscape-scale analyses.

#### *Data Analyst/Modeler & Project Coordinator – Smart Transport Asia (USAID), 2024–2025*

- Coordinated multi-country projects with diverse teams, demonstrating program management, communication, and stakeholder engagement skills.

#### *Project Coordinator/Administrator – U.S. Trade and Development Agency (USTDA), 2024*

- Contributed to the Energy and Climate Advisory Services project, updating the U.S. Export Competitiveness for Low Carbon Energy Technology Report.
- Coordinated technical deliverables and data documentation, supporting climate and energy initiatives in emerging markets.
- Strengthened experience in program reporting and multi-stakeholder communication.

#### Validation Hub GIS Analyst

March 2022 – May 2023

YouthMappers Validation Hub

Washington, DC

- Validated and improved over 3,000 OpenStreetMap features supporting community resilience projects worldwide.
- Led training sessions and workshops on GIS methods and data validation.
- Created documentation and technical resources to support international mapping initiatives.