Conor Doremus

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EXPERIENCE

NASA DEVELOP *January 2025 - November 2025*

Project Lead | Savanna Institute Jet Propulsion Laboratory La Cañada Flintridge, CA
via Analytics Mechanics Associates

- Selected as *DEVELOPer of the Term* (out of ~90 participants) for excellent performance and collaboration
- Developed SAR-based biomass estimation models using Python and Google Earth Engine, applying Random Forest regression and machine learning approaches to integrate Sentinel-1, Sentinel-2, and LiDAR data for carbon stock estimation.
- Built scalable cloud-based geospatial workflows using Google Earth Engine (Google Cloud) for multi-sensor satellite analysis and time-series mapping.
- Organized and led stakeholder communication and outreach, facilitating weekly meetings for presenting findings and visualizations, finalizing timelines, and planning deliverables

Urban Geospatial Researcher | Gulf of Maine Research Institute Remote
via Analytics Mechanics Associates

- Produced 10-year satellite-derived time-series analyses of urban heat exposure and land surface characteristics to support environmental risk assessment.
- Developed reproducible Python and Jupyter Notebook workflows for satellite data processing, analysis, and visualization.
- Utilized LiDAR data in QGIS to model felt heat in urban environments using the SOLWEIG Model
- Led presentations and community outreach to public audiences across the Portland area, using visualizations and maps developed throughout the research project.
- Co-authored a NASA Technical Report in partnership with program managers and research scientists detailing geospatial workflows, data management, and feasibility for Gulf of Maine Research Institute.

GEORGE WASHINGTON UNIVERSITY

Transportation Research Assistant | Geography Department Washington, DC
March 2024 – January 2025

- Managed, cleaned and prepped data contributing to research paper *Indigenous-Engaged Mapathon for Informal Road Research in Southern Siberia* published in *Geographical Review (Mar 2025)*, using ArcGIS Pro on informal road segments totaling over 8,000 square miles in Siberia.
- Mapped and validated pedestrian infrastructure in Meta's pedestrian mapping initiative supporting accessibility analysis and data visualization for urban mobility projects

CITY OF NEW ORLEANS

Geospatial Analyst Intern | Enterprise Innovation Team New Orleans, LA
June 2023 – August 2023

- Integrated municipal datasets across departments, created visualizations in ArcGIS Pro and ArcGIS Online, and assisted senior GIS analysts in developing mapping products for stakeholders.

EDUCATION

George Washington University *– 2025* Washington, DC
BA in American Studies | Minor in GIS | Minor in Data Science
GPA:3.79 Suma Cum Laude, Presidential Scholar Award, Data Science for Sustainable Development: GIS Volunteer

SKILLS

Programming Languages: Python, R, SQL, Javascript
Libraries: scikit-learn, Numpy, pandas, geopandas, rasterio, GDAL, folium, shapely, Arcpy, dplyr, ggplot, tidyr,
Geospatial Tools: ArcGIS Pro, Google Earth Engine, QGIS, Jupyter Notebook, Geoda, Erdas Imagine