

GRACE LONG

ANALYST CANDIDATE | GEOSPATIAL ANALYSIS, INFORMATION
MANAGEMENT & GIS SOFTWARE APPLICATIONS

 719-246-1453

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 Colorado Springs, Colorado

SUMMARY

Analyst focused Applied Geography M.A. candidate with experience in geospatial analysis, information management, and software applications relevant to space-based GIS. Skilled in ESRI application, spatial data management, web mapping, data visualization, and analytical reporting. Background includes GIS support for municipal traffic engineering, field data collection, research coordination, and spatial analysis.

EDUCATION & CERTIFICATIONS

Masters in Applied Geography
University of Colorado Colorado Springs
2025 - Present
Thesis: Comparing Ecological Health and Economic Incentives Across Land Use Systems

**Bachelors in Geography
Environmental Studies**
University of Colorado Colorado Springs
2023 - 2025
Thesis: Bush Encroachment and Vegetation Quality as Indicators of Rangeland Health

**Undergraduate Certificate in
Geographic Information Systems**
Completed 2025

**Google Data Analytics Professional
Certificate**
Completed 2026

CORE SKILLS

GIS & Esri Platform: ArcGIS Pro, ArcGIS Online, StoryMaps, Survey123, Field Maps, web apps, Google Earth Engine, geodatabases, spatial analysis, and cartographic design

Data Analytics: Python, SQL, R, Excel, data cleaning/processing, statistical analysis, visualization, quality assurance/quality control

Research & Technical Communication: Applied research, data interpretation, report writing, documentation, stakeholder communication

Project Operations: Project coordination, timeline tracking, logistics, collaboration, and deliverable support

PROFESSIONAL EXPERIENCE

April 2026 - Present	GIS INTERN - TRAFFIC ENGINEERING CITY OF COLORADO SPRINGS - Collected, processed, and analyzed roadway traffic data using field-deployed radar equipment, GIS tools, and engineering project requirements. - Evaluated field conditions for radar deployment, including equipment angle, site visibility, roadway geometry, surrounding variables, and potential sources of data bias - Translated raw data outputs into actionable insights on traffic volume, speed patterns, and roadway behavior for engineering review
2025	JULIAN RESEARCH - DARPA - Supported operations and project coordination Coordinated timelines, deliverables, workflows, and follow-ups - Managed communications with external partners, stakeholders, and internal project teams. - Assisted with research preparation, data organization, meeting logistics, documentation, and reporting
2023 - 2026	UNIVERSITY OF COLORADO SPRINGS Teaching Assistant: Environmental Remote Sensing, Quantitative & Statistical Analysis, Geography of Climate Changes, for the entire department (GIS, Physical & Human Geography) Graduate Teaching: Geography of Africa & World Regional Geography Research Assistant: Toxic Legacies GIS Certificate Program Assistant