








Gregory L Gunther

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**#leadership, #team building,
#budgeting, #strategic,
#innovative, #GIS,
#geospatial, #adaptive,
#policy, #AI, #analytics
#GeoAI, #ESRI, #community,
#partnerships #supervision,
#creative, #problem solving**

Pioneer in science data management, and application of GIS in [Public Access and Open Data](#), geospatial digital product strategic direction, community building and directing operations specializing in all phases of the [Scientific Data Management Lifecycle](#). 25 years of experience in science data management and science support, international science capacity building, with a wide range of technical and science operations experience.

SKILLS



EDUCATION

[IBM Professional Data Science Certification](#) –
(June 2025)

Coursera/IBM

**Master of Engineering
(GIS/Geospatial) 2005**

University of Colorado Denver –
Civil Engineering Department

**B.S. Natural Resources
Management - 1997**

Colorado State University—
School of Natural Resources
Management

EXPERIENCE

Director/Branch Chief Science Data Management

[Science Analytics and Synthesis \(SAS\), U.S. Geological Survey](#) (April 2023-Present)

Supervisor: Janice Gordon (janicegordon@usgs.gov)

- **Transformational Leader:** Lead a cross-functional team of information, data science, and GIS professionals in addressing a wide range of data-oriented science requirements transcending the entire USGS enterprise.
- **Cost Optimizer:** Managed 4M budget including forecasting, capital investment, staffing, acquisition/procurement, and strategic partnerships.
- **Enterprise Systems Architect:** Directed Enterprise Science Data Management digital product teams ([ScienceBase](#), [Publications Warehouse](#), [Asset Identifier Service](#), and [ModelCat](#)); provided executive leadership in system modernization initiatives, reducing development and operating costs by 30% (AWS, Globus, JSON, HPC, Python).
- **Champion of Community and Collaboration:** Catalyst for inter/intra-agency community development and collaboration as executive sponsor and director of the USGS Community for Data Integration and Earth Science Information Partnership agreement.
- **GeoLeader:** In partnership with the Federal Geographic Data Committee, operationalize USGS Geoplatform and [National Geospatial Data Assets](#) through full asset governance from inventory to final federation.
- **Operations Juggernaut:** Directed USGS Chief Data Officer operations and Department of Interior Advisory Board member supporting initiatives and strategy development in Open Data and artificial intelligence; author and contributor to the [USGS Data](#) and AI Strategies.

Director/Branch Chief Business and Technical Services

[SAS](#), (Oct 2022-Feb 2023), Supervisor: Mike Frame (frameme1107@gmail.com)

- Supported the Business Services Team operations and communications in budgeting, performance and deliverable metrics tracking, bureau data calls, carryover spending, and facilities (Power BI).
- Director of DevOPS/IT team supporting numerous enterprise science, geospatial systems, applications and associated CI/CD pipelines.

Project Chief/Supervisor and Technical Lead, Geospatial Data Management Services Project

Central Energy Resources Science Center, U.S. Geological Survey (2013 – 2022)

Supervisor: Brian Shaffer (bshaffer@usgs.gov)

- Strategic leadership, project management and supervision for the Central Energy Resources Data Management Services including staffing and human capital management, project management and planning, budgeting, and resource allocation.
- Coordinated and supervised a team of technology and data science professionals in addressing a wide range of data-driven science requirements for the Energy Resource Program (ERP) geologic research and assessment projects including:
 - Leadership and execution of mission essential database (S&P Global wells) procurement and operations director for system administration via Snowflake data lake (SQL Server, Oracle, SQL, Python).
 - [Lead architect and system administrator of Science Center GIS systems \(ArcGIS Enterprise\)](#), directed governance of Science Center ArcGIS Online presence.
 - Provided technical leadership in various levels of software development for internal research projects and external stakeholders (Java, C#, xml, JSON, Python, ArcPy).
- Data communities of practice influence ([Community of Data Integration](#), [EarthMAP](#) Capacity Team, [PPDM](#)).
- GIS and data management technical lead for the International Capacity Building initiative with the Uzbekistan Ministry of Energy and GOSCOMGEOLOGY ([U.S. State Dept International Governance Capacity Initiative](#)).

GIS Developer/Analyst

Central Energy Resources Science Center, U.S. Geological Survey (2001 – 2013)

Supervisor: David Ferderer (Retired)

- Full spectrum geographic analysis and design (ESRI Suite).
- GIS and Geospatial web application development (JavaScript, CSS, HTML5, Java, C#, Python).
- Science data processing, analysis, and modeling (Python, C#, XML, JSON, PERL).
- Geologic modeling supporting quantitative assessment of petroleum, coal and other geologic resources.

Adjunct Professor

University of Colorado Denver/Department of Civil Engineering (2005-2013)

- Web GIS, GIS Administration (ArcGIS Enterprise, GoogleMaps)
- Introduction to GIS (ArcGIS, ArcMap, ArcCatalog)

Independent Consultant/Business Owner

TerraTech Designs (1996 – 2001) -- Web development, GIS, CD-ROM product development, layout, graphic design

CERTIFICATIONS/CONTINUING EDUCATION

- [IBM Data Science Professional Certification](#)
- Extensive leadership, supervisory, operations and strategy training
- Professional Certificates in GIS (CU Denver 2004), Business and Entrepreneurial Studies (CU Denver 2004), Java Architect (CU Boulder 2001)

SELECTED REFERENCES

- Mike Frame – USGS Chief Data Officer (frameme1107@gmail.com)
- Janice Gordon – USGS Science Analytics and Synthesis Director (janicegordon@usgs.gov)
- Stephanie Gaswirth – National Park Service Geologic Resources Division Director (stephanie_gaswirth@nps.gov)
- Ofori Pearson – USGS Central Energy Resources Science Center Director (opearson@usgs.gov)