SAMANTHA E GOGOL

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EDUCATION

PhD in Anthropology **|** University of Minnesota   Anticipated Dec 2026

MA in Anthropology **|** University of Minnesota   2020

BA in Anthropology **|** Ohio University   2016

Minors: Mathematics, Paleontology

PROFESSIONAL SUMMARY

*Research and data professional with **8+ years** of strong experience in **data analysis, automation, and technical project management**. Proven ability to independently design and execute complex analytical projects, manage parallel workflows, and supervise junior contributors while delivering instructional and technical outcomes. Seeking non-academic roles at the intersection of **data, research, and project coordination**.*

TECHNICAL SKILLS

Programming & Data Analysis

- R — independent data analysis, visualization, statistical workflows, and automation
- Python — data cleaning, analysis, and scripting for workflow automation
- SQL — querying relational databases, joins, aggregation, and structured data retrieval
- JavaScript — DOM manipulation, event handling, and asynchronous logic
- HTML — semantic markup, content structure, and website maintenance

Data & Reporting Tools

- Excel / Google Sheets — conditional logic (IF/THEN), data organization, calculations, and reporting
- Data cleaning, restructuring, and preparation for downstream analysis

Tools & Workflow

- Git-based version control
- Terminal-based workflows
- Reproducible project organization

3D Data Acquisition & Processing

- Structured-light and laser scanning for high-resolution data capture
- Post-processing, cleaning, alignment, and quality control of 3D datasets
- Integration of 3D data into analytical and visualization workflows

PROFESSIONAL EXPERIENCE

Teaching & Instructional Experience | University of Minnesota   2018-2025

- Designed and delivered lecture and lab content across introductory and advanced courses in in-person and online formats
- Developed accessible instructional materials, assessments, and project-based learning activities aligned with defined outcomes
- Integrated digital tools and 3D visualization resources while managing course logistics, schedules, and student support

LATIS Summer Research Assistant | University of Minnesota   2020-2023

- Rebuilt laboratory courses for online delivery, developing accessible digital materials and workflows

- Captured, processed, and published high-resolution 3D data using structured-light scanning, supporting instructional and analytical use
- Organized, curated, and published digital assets for instructional use and advised faculty on best practices for online and hybrid instruction

SELECTED TECHNICAL & APPLIED RESEARCH PROJECTS

University of Minnesota, Ohio University   2017-present

- Led and contributed to **multiple competitively funded research projects** involving **high-resolution 3D data acquisition and large tabular datasets**
- Independently designed and managed a flagship doctoral research project, including project scoping, data pipeline design, and analytical strategy
- Built reproducible workflows for data collection, cleaning, analysis, and visualization using **R and Python**, supporting both independent and collaborative work
- Coordinated timelines, deliverables, and quality control across data collection, analysis, documentation, and undergraduate contributors while balancing full teaching responsibilities

TECHNICAL & RESEARCH MENTORSHIP

Undergraduate Mentorship | University of Minnesota   2024-Present

- Mentored **four undergraduate researchers through full project lifecycles**, from research design and data collection through analysis, interpretation, and final deliverables (class papers and undergraduate capstone theses)
- **Trained and onboarded 10 undergraduate researchers in high-resolution 3D digitization**, including data capture, post-processing, and quality control workflows
- Supervised multiple concurrent student-led research projects, coordinating timelines, milestones, and deliverables across parallel workstreams
- Guided students in data analysis and visualization using **R and Python**, ensuring analytical rigor, reproducibility, and data integrity while balancing independent funded research and full teaching responsibilities