Samantha Gogol

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Education

Anticipated 2026

Doctor of Philosophy in Anthropology, University of Minnesota- Twin Cities, MN

Dissertation title: *Identifying Carnivore Bone Modifications Using 3D Morphometrics and Machine Learning: Implications for Hominin Scavenging at Dmanisi.*

Advisor: Martha Tappen, PhD | Committee: PhDs Kieran McNulty (Chair), Gilliane Monnier, Raymond Rogers

2017-2020

Master of Arts in Anthropology, University of Minnesota- Twin Cities, MN

Advisor: Martha Tappen, PhD

2013-2016

Bachelor of Arts in Anthropology, Ohio University, OH

Minors in Mathematics and Paleontology | Advisors: Sabrina Curran, PhD; Paul Patton, PhD

Professional Appointments & Field Experience

2023-2024

Graduate Research Assistant | AISOS & LATIS | University of Minnesota
- Digitizing 3D objects and spaces for funded research projects and student course projects, managed data repositories, created 3D tour identifying anatomical features of the heart.

2023

Peter Buck Predoctoral Fellow | National Museum of Natural History | Washington DC

Fellowship Advisor: Briana Pobiner
- Digitized using structured-light scanning and molded greater than 2900 carnivore bone surface modifications from the Pobiner Collections and National Taphonomic Resource Collection.

2022-2023

Medical Transcriptionist | Department of Rehabilitation Medicine, Medical School | University of Minnesota
- Transcribed qualitative interviews involving human subjects research in compliance with HIPAA confidentiality standards. Completed transcription and data handling for interview materials within five business days. Maintained strict adherence to privacy, confidentiality, and data security protocols. Provided progress updates to research team as requested.

2019-2022

Taphonomic Research Assistant | Leakey Foundation | Olteţ River Valley, Romania

Taphonomy and chronology of Pleistocene fossil sites in central Romania. Co-PIs: Curran S, Terhune C, Petculescu A, Robu M, Robinson C.
- Identified taphonomic data on greater than 500 Pleistocene fossils from Grăunceanu, Romania.

2021

Dissertation Data Collection | Known carnivore assemblages (SCSU, UArk, UW–Madison) | USA
- Independently digitized and processed ~550 bone surface modifications from >250 skeletal elements using structured-light scanning to develop pilot dataset for dissertation research.

2019

Taphonomic Research Assistant | Georgian National Museum | Tbilisi, Georgia

Supervisors: Martha Tappen, Maia Bukhsianidze
- Digitized bone surface modifications using non-contact profilometry and high-resolution microscopy, supported data collection for collaborative research on Early Pleistocene carnivore and hominin interactions at Dmanisi.

2018

Excavation Instructor | REACHE Paleoanthropology Field School | Rusinga Island, Kenya

Co-PIs: Kieran McNulty, Lauren Michel
- Led the excavation training module in a three-component field, instructing undergraduate researchers in systematic recovery and documentation of vertebrate fossils and archaeological materials, coordinated daily field logistics, site stewardship, and data integrity with PI team.

2020	**Graduate Research Assistant | AISOS & LATIS** | University of Minnesota
	- Digitized skeletal materials for online lab modules and curated 3D models for educational repositories, supported faculty transition to remote instruction through digital course design.
2016	**Taphonomic Research Assistant | National Science Foundation |** Olteţ River Valley, Romania
	Collaborative Research: Hominin Dispersal and Paleoenvironmental Dynamics during the Plio-Pleistocene in Western Eurasia (BCS-1636686). Co-PIs: Terhune C, Curran S, Petculescu A, Robu M, Robinson C. Olteţ River Valley, Romania.
	- Identified taphonomic data on and taxonomically identified fossil fauna from Grăunceanu, surveyed the Olteţ River Valley for probable excavation sites and Pleistocene fossils.
2015-2016	**Research Assistant | Anthropological Sciences Laboratory |** Ohio University
	PIs SC Curran, PhD and PE Patton, PhD.
	- Devised protocol for Leica 3D digitizing stereo microscope, and David SLS-2 Structured Light Scanner.

Publications

2025	Curran SC, Pobiner B, **Gogol SE,** Croitor R, Drăguşin V, Keevil TL, Pante M, Popescu A, Robinson C, Ungureanu C, Werdelin L, Petculescu A, Terhune C. 2025. Taphonomic analysis of Early Pleistocene fossil localities of the Olteţ River Valley, Romania. *PaleoAnthropology*, Early View. [doi.org/10.48738/2026.iss1.3892](doi.org/10.48738/2026.iss1.3892)
2025	Curran SC, Drăguşin V, Pobiner B, Pante M, Hellstrom J, Woodhead J, Croitor R, Doboş A, **Gogol SE**, Ersek V, Keevil TL. 2025. Hominin presence in Eurasia by at least 1.95 million years ago. *Nature Communications*, 16(836). [doi.org/10.1038/s41467-025-56154-9](doi.org/10.1038/s41467-025-56154-9)
2018	Yezzi-Woodley K, Tappen M, Coil R, **Gogol SE.** 2018. Rivers and Bones. *Open Rivers: Rethinking Water, Place, and Community,* Issue 12. openrivers.umn.edu

Teaching Experience

2023-2025	**Instructor of Record**, Anthropology 3401/5401 (Human Fossil Record), U of M, Twin Cities. **Instructor of Record**, Anthropology 1001 (Introduction to Human Evolution), U of M, MN.
Fall 2022	**Teaching Assistant**, Anatomy 5150 (Medical Gross Human Anatomy), U of M, Twin Cities. **Teaching Assistant**, Anatomy 6050 (Dental Gross Anatomy), U of M, Twin Cities.
Spring 2022	**Lab Administrator**, Anthropology 1001 (Introduction to Human Evolution), U of M, MN.
2019-2021	**Teaching Assistant**, Anthropology 3402/5402 (Zooarchaeology), U of M, Twin Cities. **Teaching Assistant**, Anthropology 1001 (Introduction to Human Evolution) U of M, MN. **Teaching Assistant**, Anthropology 3401/5401 (Human Fossil Record) U of M, Twin Cities.
Spring 2019	**Lab Administrator**, Anthropology 1001 (Introduction to Human Evolution), U of M, MN.
Sum 2018	**Excavation Instructor**, REACHE Paleoanthropology Field School *PIs Dr. Kieran McNulty and Dr. Lauren Michel; Rusinga Island, Kenya.*
Fall 2018	**Teaching Assistant**, ANTH 1001 (Introduction to Human Evolution), U of M, Twin Cities.

Awards

2023	Smithsonian Institute Fellowship Program, National Museum of Natural History	$19300
2021	Anthropology Department Block Grant, University of Minnesota	$6972
2020	Anthropology Department Block Grant, University of Minnesota	$3192

2019	Graduate Research Partnership Programs (GRPP), University of Minnesota	$2900
2018	Anthropology Department Block Grant, University of Minnesota	$4402
2017-2022	University of Minnesota College of Liberal Arts Fellowship	$45000

Professional & Outreach Presentations

2025	Monnier G, Edling M, **Gogol SG.** Minnesota FIRST LEGO League teams for the UNEARTHED archaeology challenge. Presented archaeological materials to 14 elementary students and assisted in Q&A regarding anthropological field work. Outreach Presentation.
2025	Terhune CE, Dragusin V, Pobiner BL, Pante M, Hellstrom J, Woodhead J, Croiter R, Dobos A, **Gogol SE**, Ersek V, Petculescu A, Popescu A, Robinson C, Werdelin L, Curran S. *Cut marks dated to 1.95 Ma from Grăunceanu, Romania. Paleoanthropology: Later Hominin Evolution*. 94th AABA Annual Meeting; 2025 March; Baltimore, MD. Poster Presentation.
2025	Curran S, Pobiner BL, **Gogol SE**, Croiter R, Dragusin V, Pante M, Popescu A, Robinson C, Werdelin L, Petculescu A, Terhune CE. *Taphonomy and paleoecology of the 1.95 Ma site of Grăunceanu, Romania. Paleoanthropology: Later Hominin Evolution*. 94th AABA Annual Meeting; 2025 March; Baltimore, MD. Poster Presentation.
2024	**Gogol SE,** Lama-Luther R. *Bare Your Teeth*. SciPride 2024; Bell Museum of Natural History; 2024 July; Minneapolis, Minnesota, United States. Engaged 411 community members of all ages. Educated people on zooarchaeological identification and diet based on dental morphology. Outreach Presentation.
2021	Porter ST, Cicak T, **Gogol SE**, Jenkins L. *Converting Human Evolution Lab Activities to an Online Format*. 90th AABA Annual Meeting; 2021 Virtual; Poster Presentation.
2021	**Panelist,** *Connecting with Youth Scholars in the Era of COVID-19.* 90th AABA Annual Meeting; 2021 Virtual. Panel Discussion.

Undergraduate Mentorship

2025	**Undergraduate Capstone Mentorship**	Department of Anthropology	University of Minnesota Supervise independent capstone research projects involving 3D data collection, digital modeling, and morphometric analysis. - *Devon Ashley, Tarun Balaji*
2024-2025	**Undergraduate Lab & Technical Mentorship**	Department of Anthropology	University of Minnesota Train and supervise students in 3D scanning and post-processing (Artec Spider II, David SLS-3, Transcan C) using Geomagic Design X. - *Devon Ashley, Gwyn Bolton, Tarun Balaji, Eliot Ebner, Samuel King, Olivia Meier, Beth Onward, Lucas Przybylski, Reilly Ringness, Natalia Zamorano.*
2024-2025	**Undergraduate Research Mentorship**	Department of Anthropology	University of Minnesota Guided projects on bone surface modification, integrating literature review, data analysis, and manuscript development. - *Devon Ashley, Tarun Balaji, Samuel King, Olivia Meier*

Digital Products

| 2024 | **Gogol SE**, Escudero EV, Brigham J, Buyck D, Porter ST, Cicak T. Visual Heart Laboratories Internal Heart Anatomy Tour. Kuula Virtual Tours; 2024. kuula.co/post/n1/collection/7Jz0v |

| 2020 | **Gogol SE,** Cicak T. Remote Lab Series for Introductory Biological Anthropology Educational Module. Liberal Arts Technologies and Innovation Services (LATIS); 2020. canvas.umn.edu |

Research Compliance & Professional Training

Nov 2022	**Collaborative Institutional Training Initiative (CITI Program)**
	GCP – Social and Behavioral Research Best Practices for Clinical Research (Stage 1; score 100; valid through Nov 2025)
	Human Research: Social/Behavioral or Humanist Investigators and Key Personnel (Stage 1)
	Research Involving Human Subjects (RCR-Basic)
	Biomedical Responsible Conduct of Research (RCR)
	Research, Ethics, and Society (RCR)
2022	**University of Minnesota Graduate School**
	Instructional Design as Transferable Skills Gold Badge

Technical and Analytical 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

Soft Tissue Dissection and Anatomical Identification
Human and non-human mammal cadaver dissection; skeletal anatomy and preparation (dissection, maceration)

3D Digitizing/Microscopy Methods
Structured-light and laser scanning (Artec Spider II, David SLS-3, Transcan C)
Additional imaging: Non-contact surface profilometry, SEM, RTI, Leica 3D Digitizing Microscope

Post-Processing, Visualization, and Analysis Software
Geomagic Design X, Meshlab, Blender, 3D Slicer, Photoshop, Illustrator, R, Python, HTML, Nanovea Mountain Maps