

Emery Dembski

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EDUCATION

University of Georgia

Bachelor of Science in Environmental Engineering

Athens, GA

Aug 2023 – May 2027

UGA at Oxford Study Abroad

Franklin Summer Program 2026

June 2026 – Aug 2026

- Utilized structure from motion (SfM) photogrammetry for aerial and terrestrial surveying of historical sites and architectural features to estimate the 3D geometry of a subject.
- Collected field data using GNSS receivers and photogrammetric drone surveying techniques, and used that data to generate 3D, DEM, and topographic contour models in Agisoft Metashape.

RELEVANT COURSEWORK

Engineering Urban Systems | Hydraulics of Closed Conduit Flow | Advanced Survey Methods Using Drones | Energy and Environmental Policy Analysis | Air Pollution Engineering | Environmental Engineering Design Methodology

PROJECT EXPERIENCE

Design for Municipal Water, Wastewater, and Solid Waste Treatment, *Urban Systems*

Aug 2025 – Dec 2025

- Designed the infrastructure and system for a drinking water and wastewater treatment facility and a solid waste facility for a community with a projected demand of about 48,000 residents.
- Studied and applied principles of environmental engineering such as green engineering, systems thinking, circularity, social equity, and economic viability.

Group Project, *Environmental Engineering Design Methodology*

Jan 2025 – May 2025

- Worked with a 4-person team to research existing Extend Producer Responsibility (EPR) organizations across the globe, explore properties of plastic waste from various industries, and the greatest challenges that recycling industries face.
- Wrote a 21-page formal EPR policy proposal for the state of Georgia to increase the regulations of plastic pollution in the personal care industry considering education, design, costs, materials, and plans for future implementation.

EXPERIENTIAL LEARNING

Compound Inundation Team for Resilient Applications (CITRA)

Aug 2026 - Present

Student Research Assistant

- Assisting graduate student with a project focused on coastal flood modelling in Caribbean islands.
- Performing tasks with MATLAB.

INVOLVEMENT EXPERIENCE

UGA Club XC/Track

Jan 2024 – Present

Society of Environmental Engineers

Aug 2025 – Present

SKILLS

Software: Word, Excel, MATLAB, Civil3D, R, Agisoft Metashape

Technical: Data analysis, technical report writing, engineering calculations

HONORS AND AWARDS

Environmental Studies Scholarship, *Keep Smyrna Beautiful (KSB)*

May 2023