

Ethan Savage

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PROFESSIONAL SUMMARY

Field-ready Environmental Scientist who graduated from the University of Toronto with a double major in Environmental Science and Physics and a minor in Geoscience. Holds 40-Hour HAZWOPER and WHMIS certifications with hands-on experience in environmental monitoring, sediment and water sampling, GIS mapping (ArcGIS Pro, QGIS), and computational modeling (Python, R). Demonstrated success conducting independent field research, producing ArcGIS StoryMaps for community outreach, and authoring peer-reviewed publications. Dual citizen eligible to work in both Canada and the United States.

CORE COMPETENCIES

GIS & Spatial Analysis: ArcGIS Pro • QGIS • ArcGIS StoryMaps • Vector & Raster Data Models • Map Projections & Datums • Geospatial Data Processing

Computational & Modeling: Python (NumPy, SciPy) • R Programming • Mathematical Modeling (ODEs) • Statistical Analysis (Inferential, Descriptive)

Field & Laboratory: Sediment & Water Sampling • Environmental Sensor Installation • Ontario Stream Assessment Protocol • Mass Spectrometry • Chromatography • Data Quality Control (QC) • Polarized Light Microscopy (PLM) Training • Canadian Synthetic Aperture Radar (SAR) Training

Environmental Knowledge: Environmental Monitoring • Soil Analysis • Citizen Science Programs • Ecological Assessment • Sustainability Frameworks • Regenerative Design

PROFESSIONAL EXPERIENCE

Environmental Science Intern — EcoSpark

September 2025 – January 2026 - Toronto, ON

- Conducted independent field research for the **Snow Knowledge Collective** monitoring project, applying meteorological knowledge to collect and analyze climate data across multiple field sites
- Collected sediment and water samples, installed environmental sensors, and performed stream assessments using the **Ontario Stream Assessment Protocol** under varying field conditions
- Led soil monitoring sessions with high school classes, contributing to **STEM engagement** by demonstrating measurement techniques and mentoring students in environmental data collection
- Designed and published an **ArcGIS StoryMap** analyzing local bird populations and human-environment connections, shared on EcoSpark's website for community outreach
- Delivered in-person research presentation synthesizing applied science findings on **ecosystem health and human wellbeing** to community stakeholders
- Supported citizen science program operations through independent research, program delivery assistance, and educational resource development

Imaging Science Research Intern — RIT- Carlson Center for Imaging Science

June 2021 - August 2021 - Rochester, NY

- Collaborated with Dr. Pelz on NASA-funded research developing methods to repair **cosmic radiation damage** to space-based satellite imagery

- Applied computational analysis techniques to process and restore degraded image datasets for scientific use

401 (K) Customer Service Representative — Paychex

May 2023 - August 2024 - Rochester, NY

- Assisted clients with IRS 5500 Form Filings
- Resolved client inquiries across **2 consecutive summer terms**, demonstrating strong verbal and written communication skills in a professional corporate environment
- Managed high-volume customer interactions while maintaining accuracy and attention to detail

EDUCATION

Honours Bachelor of Science (Double Major), Environmental Science & Physics, Minor in Geoscience

University of Toronto, Toronto, ON – May 2026

Certificate in Sustainability - School of the Environment

High School Diploma, Advanced Placement Program

Rush Henrietta Senior High School, Rochester, NY - June 2022

CERTIFICATIONS & LICENSES

Student Member – Professional Geoscientists Ontario (PGO)

40-Hour HAZWOPER — Hazardous Waste Operations and Emergency Response

WHMIS — Workplace Hazardous Materials Information System

CPR/AED Certified

Pleasure Craft Operator Card (PCOC) — Restricted Operator's Certificate - Maritime

Pre-Approved for Eco Canada Placement Funding

Publications

- Savage, E. (2021). "Is SARS-CoV-2 a Seasonal Virus?" Young Scientists Journal.
- Savage, E. (2018). "Climate Change and Its Effects on Two US Cities." Journal of Emerging Investigators. Published September 5, 2018.