

# Samuel Kalevi Zebarth Taylor

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## Education

### University of Iowa

M.A. Geography

Iowa City

Fall 2021 - Spring 2023

Modelling Debris-Flow Risk Using Hyperspectral Remote Sensing of Wildfire Burn Severity, *GPA: 4.0*

### University of Dubuque

B.S. Environmental Science

Dubuque

Fall 2018 - 2021

*Summa Cum Laude, GPA: 3.95*

### Northeast Iowa Community College

A.S. & A.A.

Peosta

Spring 2016 - 2018

*GPA: 3.42*

## Professional Appointments

### University of Iowa

Graduate Research Assistant: *Project OVPR under Dr. Marc Linderman*

Fall 2023

### Iowa Conservation Education Coalition

Executive Committee Member

Winter 2022 - Present

### University of Iowa

Graduate Research Assistant: *Project ISSSF under Dr. Susan Meerdink*

Summer 2023

### The Office of the State Archaeologist

GIS Special Assistant

Winter 2022 - Fall 2023

### University of Iowa

Teaching Assistant

Fall 2021 - Fall 2023

### Latham Science Engagement Initiative

Graduate Mentor

Spring 2022

### Higley Industries Inc.

Operational Manager & Chief Chemist

2020 - 2021

## Presentations

- [1] Taylor, Samuel K. 2023. Modelling Debris-Flow Risk Using Hyperspectral Remote Sensing of Wildfire Burn Severity, AGU Fall Meeting Poster Presentation
- [2] Taylor, Samuel K. 2023. Presentation to Aspiring Graduate Students, Invitation to the University of Dubuque
- [3] Taylor, Samuel K. 2023. Modelling Debris-Flow Risk Using Hyperspectral Remote Sensing of Wildfire Burn Severity, Invitation to Lakeside Laboratories Tuesday Lecture Series
- [4] Taylor, Samuel K. 2022. Calling for Climate action, Student Panel, Invitation to the Upper Mississippi River Conference
- [5] Taylor, Samuel K. 2022. Graduate School: A tale of self-inflicted schadenfreude, Invited presentation to University of Dubuque's Department of Natural & Applied Sciences Senior Seminar
- [6] Taylor, Samuel K. 2022. Solastalgia, Invited presentation to University of Dubuque's Sustainable UD class
- [7] Dale H. Easley and Samuel Taylor. 2021. Communicating Local Climate Data. Midwest Environmental Educator's Conference
- [8] Zebarth, Samuel K. and Dale H. Easley. 2021. Connecting Dubuque: Developing Software and Analyzing Local Climate Data. Mississippi River Research Consortium Annual Meeting, vol. 52, p. 54.
- [9] Zebarth, Samuel K. 2021. Earth Day Youth Environmental Panel, Invited panel presentation to the Sisters of Saint Francis Canticle of Creation

[10] Zebarth, Samuel K. and Dale H. Easley. 2020. Connecting Dubuque to Local Climate Data. Presentation to Twelfth Annual Illinois-Iowa American Chemical Society Undergraduate Research Conference

[11] Easley, Dale H., Taiana Butler, Lyndy Holdt, and Sam Zebarth, 2020. No Denying It: We Need Data. Invited presentation to the Resilience Technical Leaders Focus Group, Dewberry Engineering Consultants

Publications

In Preparation:

[1] Taylor, Samuel K., “Modelling Debris-Flow Risk Using Hyperspectral Remote Sensing of Wildfire Burn Severity.” (Thesis)

Non-Peer Reviewed Publications:

[1] Zebarth, Samuel K., “Creating graphene-powered supercapacitors,” The Colonnade, pg 19-44, 2019. [\[Link\]](#)

Awards and Honors

2023	Runner Up: University of Iowa Three Minute Thesis (3MT) competition
2023	Excelling at Iowa: University of Iowa Champion for Student Success
2022	Excelling at Iowa: University of Iowa Champion for Student Success
2022	Pentacrest Museums Experiential Learning Article
2021	ISO certification 9001 for Higley Industries Inc.
2021	ISO certification 14001 for Higley Industries Inc.
2021	Alpha Chi Scholar
2021	William C. and Mary Helen Neumeister Scholarship
2020	John and Alice Butler Summer Research Fellowship
2017	AmeriCorps Mayor’s Day of Recognition
2015	Quincy Jones Musicianship Award

Teaching Experience

Fall 2023	Teaching Assistant - Foundations of GIS	<i>GEOG:2050</i>
Spring 2023	Head Teaching Assistant - Introduction to Environmental Science	<i>EES:1080</i>
Fall 2022	Teaching Assistant - Introduction to Environmental Science	<i>EES:1080</i>
Spring 2022	Graduate Mentor - Science Outreach Project	<i>LATH:3001</i>
Spring 2022	Graduate Mentor - Science Communication & Skill Building	<i>LATH:3000</i>
Spring 2022	Teaching Assistant - Introduction to Environmental Science	<i>EES:1080</i>
Fall 2021	Head Teaching Assistant - Fundamentals of Environmental Science	<i>EES:1085</i>

Technical Skills

Programming	Python, HTML, CSS, L <sup>A</sup> T <sub>E</sub> X, Beamer, Overleaf, Ghostwriter, Javascript(in-progress)
Professional Softwares	ArcGIS, QGIS, PeakFQ, Microsoft Office Suite, Adobe Illustrator, ENVI, MODTRAN(in-progress)