

# Graham Sandersfeld

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## Education

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### **B.S. Environmental Policy and Planning** (in progress)

**August 2018 – May 2022**

3.95 GPA

Honors in the Major

Certificate in Sustainability

The University of Iowa, Iowa City, IA

### **Honors Thesis**

**May 2022**

John and Elsie Mae Ferentz Undergraduate Research Fund Award (\$1000)

- Combined historical census data, land records, aerial imagery, and geographical analysis in ArcGIS Pro to characterize the impacts and inequities of major road construction in Cedar Rapids, Iowa since the 1960s

### **Featured Coursework and Technical Skills**

- Foundations of GIS – ArcGIS Desktop
- GIS for Environmental Studies – ArcGIS Pro, ArcGIS Online
- Geospatial Programming – Python, ArcPy
- Statistical Methods and Computing – SAS
- Principles of Computing – Excel, HTML, CSS
- Introduction to Bird Study – Native bird species identification

## Research Experience – The University of Iowa

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### **Undergraduate Research Assistant**

**May 2021 – Present**

Department of Geographical and Sustainability Sciences

- Identified and measured trees in Iowa City and Cedar Rapids for departmental research
- Operated Garmin handheld GPS, range finders and measuring tapes while consulting field guides for tree identification
- Assisted with small mammal surveys by taking field notes, identifying animals, and deploying H.B. Sherman live traps
- Deployed and maintained wildlife cameras and identified animals for the Urban Wildlife Information Network
- Conducted fieldwork with teammates in hot temperatures, rugged terrain, and with biting insects for hours at a time

### **Research Fellow** (\$2500 stipend)

**Summer 2021**

Iowa Center for Research by Undergraduates

- Poster: Impacts of the 2020 Midwest Derecho on Cedar Rapids Street Trees
- Analyzed the Cedar Rapids street tree database and Linn County census data using ArcGIS Pro, Microsoft Excel, and i-Tree ecosystem modeling software
- Presented at the 2022 Spring Undergraduate Research Festival

## **Working and Teaching Experience**

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### **Conversation Practicum Student**

**August 2021 – December 2021**

Conversation Center, Department of Rhetoric

The University of Iowa, Iowa City, IA

- Practiced cultural humility while providing conversational speaking practice to students in the English as a Second Language (ESL) program
- Presented a narrative based on conversations with ESL and international student experiences about transportation

### **Learning Assistant**

**August 2020 – December 2020**

Academic Support and Retention, University College

The University of Iowa, Iowa City, IA

- Successfully piloted a virtual small group instructional modality for an introductory Chemistry course
- Voiced student concerns to faculty at weekly meetings
- Studied and applied pedagogical methods with peers under a supervisor to improve students' learning

### **Cashier, Delivery Driver, Wine and Spirits Clerk**

**August 2018 – November 2021**

Hy-Vee, Inc., Coralville, IA

- Provided excellent service by training employees, greeting customers, assisting with purchases, stocking shelves, delivering orders, answering phones, maintaining cleanliness, and operating store machinery