

# Jared Andrew Crain

*Curriculum Vitae*

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Burchfiel Geography Building

1000 Phillip Fulmer Way  
Knoxville, TN, 37996

## Education

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- MS** Physical Geography, Ongoing (Expected in **December 2021**)  
**University of Tennessee, Knoxville**
- BS** Environmental Science with a Biology Concentration, **December 2019**  
Creative Writing Minor  
*Magna Cum Laude*  
**Berry College**

## Research & Work Experience

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- 2021** (Ongoing) **Soil Coring Field Research**  
Brushy Mountain Trail and Porter's Creek Trail, GSMNP
- Hike trails, collect soil cores up to a meter long, record and log soil sample locations and properties, reconstruct fires from soil charcoal
- 2020** (Ongoing) **Graduate Teaching Assistant**  
Department of Geography, University of Tennessee, Knoxville
- GEOG 131: Climate, Weather, and Climate Change (3x); GEOG 331: Natural Hazards;  
GEOG 345: People and Environment
- 2019** **Coyote Research and Wildlife Intern**  
Dewees Island Conservancy, South Carolina
- Performed camera trap, scat, vocal, and data analysis of the island's coyote population; conducted weekly sea turtle patrol; led educational programs covering a diversity of ecological topics; conducted surveys of barrier island wildlife; creative environmental contributions to the island blog and local newspaper
- 2019** **Research Assistant in the Department of Biology, Berry College**  
Supervisor: Dr. Chris Mowry
- Tagged photos from trail cameras for the *Atlanta Coyote Project* database

- 2019**                    **Research Assistant in the Paleogeography Lab, Berry College**  
Supervisor: Dr. Zachary Taylor
- Constructed a fire record from a Colorado lake sediment core using charcoal counts and morphology; conducted Loss on Ignition (LOI) analysis to determine organic content; conducted Magnetic Susceptibility (mineral content) and Particle Size Analysis (PSA)
- 2018-19**                **Sustainability Prose-writing**  
Rocky Park Natural Farm in Friendsville, Tennessee
- Creative sustainability writing and editing for the farm website and blog
- 2018-19**                **Writing Consultant**  
Mountain Challenge at Maryville College, Tennessee
- Creative promotional writing for outdoor programming and grant proposal writing
- 2018**                    **Journalism Consultant**  
Maryville College News Beat
- 2018**                    **Engineering Consultant Intern**  
Strata-G, LLC, Knoxville, Tennessee
- Technical writing on coding protocol for natural gas utility safety management and consulting work for Knoxville Utilities Board (KUB)
- 2016 & 2017**        **TEAMeffort Staff and Camp Counselor**  
Staff member in New Orleans, Louisiana, and Clarkesville, Georgia
- Organized/led community construction projects and weekly messages
- 2016-17**                **Deputy News Editor**  
Campus Carrier Newspaper, Berry College
- Conducted and transcribed interviews; wrote and edited news stories
- 2015-16**                **Crew Member**  
Mountain Grounds Crew, Berry College
- 2014-15**                **Courier and Office Assistant**  
Costner & Greene Attorneys at Law, Maryville, TN

## Honors and Awards

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### Scientific Research Honors

- 2019**                    **Paleo-environmental Change MS/Undergraduate poster competition winner**  
American Association of Geographer's (AAG) Annual Meeting  
Washington, D.C.
- 2019**                    **Berry Symposium on Student Scholarship recognition**
- 2019**                    **Richard's Undergraduate Research Grant (RUG)**  
Support for paleogeographical research at Berry College
- 2017**                    **Outstanding Environmental Science Student Award**

### Writing and Communications Honors

- 2018**                    **Southern Literary Festival award winner**  
University of Tennessee, Martin  
First place in Fiction writing and journal publication
- 2017**                    **Most Valuable Assistant Editor**  
Berry College Campus Carrier and Communications department
- 2016-17**                **Student Gov. Representative for Berry College Campus Carrier**
- 2016-17**                **Forensic Speech and Debate Scholarship**  
Berry College Forensics Union
- 2016-17**                **Berry College Forensics Union competitive awards**  
**First place** in Georgia State Tournament in Duo and Prose  
**Fourth place** in Novice Nationals in Public Narrative Speech

### Other Honors

- 2015-19**                **Berry College Honors Student Union**  
BS-H degree designation
- 2015-19**                **Tuition Exchange Scholarship**  
4-year tuition funding at Berry College

### Writing Publications

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**Crain, J.A.** 2019. "Silent Flight." *The Helix Literary and Art Magazine*. Issue: Fall 2019.

**Crain, J.A.** 2018. "The Oasis." *Southern Literary Journal*. Issue: 2018.

## Lectures

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**2020** Urban climates and human impacts, University of Tennessee, Knoxville, Spring 2020

**2020** Urban climates and human impacts, Maryville College, Fall 2020

## Professional Presentations

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**Crain, J.A.** and S.P. Horn. 2021. Developing a Microscopic Charcoal Classification System Using Modern Reference Charcoal and Charcoal from Past Fires on Pollen Slides. GeoSym Geography Conference, University of Tennessee, Knoxville. March 19, 2021.

**Crain, J.A.** 2019. Coyote Internship Data Analysis. Dewees Island Property Owners Association. August 16, 2019.

**Crain, J.A.** and Z.P. Taylor. 2019. Prehistoric Fire Dynamics in the Sagebrush Habitat of the Gunnison Sage Grouse. Annual American Association of Geographers Meeting, Washington, D.C. April 5, 2019.

**Crain, J.A.** 2018. Engineering Consultant Internship Presentation: Coding in Gas Systems Engineering and Utilities. Strata-G, LLC. December 17, 2018.

## Service

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**2021** **Geography Graduate Student Representative for Colloquia, UTK**  
Help prepare and set up for weekly Geography Department colloquium lectures

**2019** **Loggerhead Sea Turtle Conservation volunteer work**  
Cape Romain National Wildlife Refuge and Cape Island Refuge  
  
Caged, relocated, and inventoried sea turtle nests

**2017** **Coastal Ecology Trip to Saint Catherines Island, GA, Assistant**  
Berry College

**2016-18** **Men's Ministry Leadership Team**  
Berry College  
  
Organized messages, public events, and group trips

**2015** **Coastal Ecology Trip to Edisto Island, SC, Assistant**  
Maryville College

**2014-15** **Medical Mission Trips abroad**  
Baptist Medical and Dental Missions International (BMDMI), Guaimaca, Honduras  
  
Performed triage duties for surgeons, doctors, dentists, and nurses in villages

## Relevant Academic Coursework

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Behavioral Ecology, Environmental Chemistry, Biogeography, Environmental History from Lake Sediments, Meteorology, Climate and Weather, Writing about Place/Environment, Conservation Biology, Environmental Case Studies, Environmental Anthropology, Principles of Zoology, Writing and Community, Wildlife Diseases, Geographic Information Systems (GIS), GIS of Terrain Analysis, Historical Geology, Creative Nonfiction Writing, Ministry Vocations, The Livable City, Quantitative Methods in Geography, Seminars in Environmental History, Physical Geography, and Grant-writing

## References

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Sally Horn

Professor of Geography at the University of Tennessee, Knoxville  
University of Tennessee Master's advisor  
(865) 974-2418  
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Zachary Taylor

Assistant Professor of Environmental Science at Berry College  
Berry College research work supervisor and academic advisor for major  
(865) 388-7752  
ztaylor@berry.edu

Lori Sheridan Wilson

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Dewees Island wildlife research supervisor  
(843) 568-3994  
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Will Donnelly

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Berry College academic advisor for writing minor  
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Chris Mowry

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Berry College work supervisor  
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Brooke Sinclair

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Consulting internship supervisor  
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