

James Luther “Luke” Chamberlain IV

(540) 808-5505 | jlchamberlai@wisc.edu | [Portfolio](#)

EXPERIENCE

Center for Health Disparities Research – UW Madison

Madison, WI

GIS Research Assistant: 10(semester)-30(summer) hrs/wk

Apr 2022 – Present

- Primary duties: geocoding addresses and managing GIS data for Neighborhood Atlas Project
- Developing publication quality map products.

Center for Environmental Management on Military Lands – Colorado State University

Fort Collins, CO

GIS Technician: Full-time

Mar 2021 – Nov 2021

- Primary duties: georeferencing, digitizing features from archaeological reports in Western U.S. BLM land (1960s-present)
- Responsible for managing geodatabase containing >10,000 features.

Geospatial Centroid – Colorado State University

Fort Collins, CO

Graduate Student Intern: 15-20 hrs/wk

Aug 2019 – Mar 2021

- Project team lead: land classification and vegetation impact report for Capitol Reef National Park.
 - Assessed impact of increased visitation on vegetation around popular trails at Capitol Reef National Park using satellite imagery.
 - Final deliverables: technical report and associated geodatabase to NPS staff at Capitol Reef.
- Project team lead: data hosting and website creation for Colorado watershed datasets.
 - Easily able to navigate both front and back-end data storage and hosting features of ArcGIS Online and ArcGIS HUB open data platforms.
 - Link to finished website: <https://geospatialcentroid-csurams.hub.arcgis.com/>
- Project team member: Colorado Brightfields project.
 - Compiled spatial data and conducted analyses to identify priority land parcels for renewable energy development in Colorado.
 - Delivered data dictionary report to project funders detailing all data layers used for analyses (~200 layers).

Human Dimensions of Natural Resources – Colorado State University

Fort Collins, CO

Graduate Research Assistant

May 2019 – June 2020

- Return on investment assessment for Denver Water, co-author:
 - Conducted initial literature review, calculated monetary impact of different modeled future wildfire scenarios on full range of watershed values – included geospatial raster analyses.
- Public participatory GIS research study, primary author:
 - Designed, implemented, conducted analysis, and wrote scientific article for PPGIS survey. Distributed to ~2,000 households in the Big Thompson Watershed, CO.
 - Experienced with participatory mapping and survey methods.
 - Advised Big Thompson Watershed Coalition (Loveland, CO) on using similar web-based survey methods to incorporate community input into future river management.
 - Link to BTWC project: <https://bigthompson.co/project/big-thompson-river-envisioning-project/>

Human Dimensions of Natural Resources – Colorado State University

Fort Collins, CO

Graduate Teaching Assistant

Aug 2018 – May 2019

- NRRT 330 – Social Aspects of Natural Resource Management:
 - Assisted professor in developing lessons for 90-person undergraduate course in social and behavioral science theory – two semesters.

EDUCATION

UNIVERSITY OF WISCONSIN

Madison, WI

M.S. in Cartography and GIS (Current: May 2023)

- **GPA:** 4.0/4.0
- **Relevant Coursework:**
 - Intro to Cartography, Intro to Geocomputing, Geospatial Big Data, Graphic Design in Cartography, GIS Databases, Interactive Cartography & Geovisualization

COLORADO STATE UNIVERSITY

Fort Collins, CO

M.S. in Human Dimensions of Natural Resources (Graduated: December 2020)

- **GPA:** 4.0/4.0
- **Thesis:** “Ecosystem Service Valuation for Wildfire Mitigation Prioritization Decision-Making in Colorado”
- **Relevant Coursework:**
 - Concepts in GIS, GIS Applications in Natural Resource Management, Programming for GIS, Spatial Statistical Modeling.

CORNELL UNIVERSITY

Ithaca, NY

B.S. in Science of Natural Environmental Systems – Academic Focus: Biology (Graduated: May 2014)

- **GPA:** 3.3/4.0

PUBLICATIONS, PRESENTATIONS, AWARDS

- Primary Author: “*Sociocultural mapping of ecosystem service values can inform where to mitigate wildfire risk: A case study from Colorado.*”
 - Journal of Environmental Planning and Management – December, 2022.
- Petechnik Award for Cartographic Design: “*Poverty & The Opioid Epidemic*” – May, 2022.
- Co-Author: “*A Cost-Benefit Analysis of Denver’s Forests to Faucets Program, 2011-2019.*”
- Oral presentation and technical report: “*Impact of Increased Visitation on Trails and Surrounding Vegetation: Capitol Reef National Park, UT.*” – March, 2020.
- Oral and poster presentations on PPGIS research: “*Public Perceptions of Ecosystem Services – A Spatial Approach.*”
 - Front Range Student Ecology Symposium – February, 2020.

ADDITIONAL SKILLS

- ESRI GIS software: ArcGIS Pro, ArcMap 10.x, ArcGIS Online, Model Builder, ArcGIS HUB, Survey 123, ArcPy.
- Programming Languages: Python, Javascript, HTML
- Adobe Creative Suite: Illustrator, Photoshop, InDesign
- Exceptional writer and presenter: academic papers, technical reports, poster presentations, slideshows, oral presentations.
- 10+ years of experience using Microsoft Office software.
- Creative thinker, team-oriented worker, experienced geospatial problem-solver.

INTERESTS & HOBBIES

Graphic Design | Visual Art | Tabletop Gaming | Biking | Skiing