

# Natalie Castro

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## EDUCATION

**University of Colorado Boulder**, Boulder, CO

May 2024

**Bachelor of Arts in Sociology** – GPA 3.240

- Minor in Data Science and Education - Master of Information Science expected graduation date December 2024
- Dean's List from August 2022 to present; McNair Scholar; Sociology Club: President
- Skills: Python, R, STATA, Excel, Literature Reviews, Communication, Passion, Hard Working

## PROJECTS

**University of Colorado**, Boulder, Colorado

May 2023 - August 2023

*McNair Research Internship*

- Analyzed 170 school districts financial data using Python correlations leading to a new understanding in education proceedings which I presented at a conference demonstrating my innovative approach to my passion.
- Established a data collection system by writing an automatic script in Python for 150 school districts and collaborated with a larger team for framework to scrape videos from YouTube and host them onto a publicly accessible website
- Quantify topics most important to school district boards using Python and natural language processing to contribute to education literature

**University of Colorado**, Boulder, Colorado

August 2022 - December 2022

*INFO 2201: Programming for Information Science*

- Analyzed the American Community Survey data, Kaiser Family Foundation data, and Census 2020 data to draw tentative generalizations regarding healthcare access using Python Pandas Module, statistics correlation, and data shaping
- Compared health care of individuals in high socioeconomic status to low status to demonstrate equity gaps caused by financial barriers to quality health care, found through the details in the data analysis.
- Communicated equity gaps in United States healthcare by through visualizations and a five page write up

**University of Colorado**, Boulder, Colorado

August 2022 - December 2022

*INFO 2131: Information Ecosystems*

- Conducted primary and secondary data analysis via two interviews and literature review to develop the project
- Produced a data workflow with a team of five people for a university department resulting in a visual representation of department operations
- Communicated project findings to the Office of Faculty Affairs in interpreting data flow and weak spots within OFA contributing to a streamlined workflow for user experience

## EXPERIENCE

**University of Colorado**, Boulder, Colorado

August 2022 - Present

*Research Assistant- Dr. Kyle Thomas, Dr Sarah Sokhey, & Dr. Francisca Antman*

- Managed data gathering, data manipulation, drafting research papers, and presenting to present at an exposition
- Systematized data collection using a Python script generating in a database of 300 individuals and two accepted papers
- Managed the development of a literature review focused on the creation of equitable research labs for a forthcoming paper
- Research Methods Used: STATA software, literature review, survey development, EBSCO host, Python, Zotero

**University of Colorado**, Boulder, Colorado

January 2022 - Present

*Teaching Assistant for INFO 2131 - Dr. Amy Volda & Dr. Leysia Palen*

- Managed providing students with feedback and grades on daily reflections, reading annotations, and cumulative projects
- Clarified assignment expectations to students in class creating a more satisfactory experience in the course
- Coordinated with students about special circumstances resulting in a more equitable grading policy for the course
- Prioritized quick turnaround between assignments and feedback ensuring in effective communication between students

**YMCA, and University of Colorado**, Boulder, Colorado

May 2023 - August 2023

*CU PIIIE: Director of Fun and Data Analyst Internship – Jessica Clay & Jasimine Evans*

- Write surveys for summer camp engagement and generate data dashboards in Microsoft Excel for program evaluation
- Prepare data for a YMCA grant application in Microsoft Excel and Python resulting in a 4,000-line clean spreadsheet
- Advocated for fair play for students of all abilities and ages to participate in group activities developing in higher camp satisfaction among students and parents
- Entertained 45 students through multiple forms of engagement (like the chicken dance) for children to have a fun time at camp while complying with legal guidelines, and socio-emotional requirements for learning.

**University of Colorado & Boulder Housing Partners**, Boulder, Colorado

January 2023 - May 2023

*Course Development and Adolescent Mentor for EDUC 4112 – Dr. Kalonji Nzinga and David Nguyen*

- Created a ten-week curriculum for 15 low-income students to develop leadership, self-advocacy, and self-confidence
- Coordinated with other local institutions to generate ample resources and opportunities for students to learn from