

# Natalie Castro

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## EDUCATION

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

May 2024

**Bachelor of Arts in Sociology**

- Minor in Data Science and Education - Master of Information Science expected graduation date December 2024
- Dean's List from 2022 Fall Semester to present; McNair Scholar; Sociology Club President
- Research focus: data science within social science field to understand structures in which inequality is perpetuated

## PROJECTS

**University of Colorado**, Boulder, Colorado

May 2023 - August 2023

*McNair Research Internship*

- Developed a framework for understanding disparities within education using Board of Education meetings
- Established a data collection system for 170 school districts by writing an automatic script in Python for 150 school districts
- Presented findings titled "Education Policy and School Performance: A Data Driven Approach" at the McNair Conference

**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 resources resulting in a final project write up
- Illustrated equity gaps by summarizing data in Python and generating multiple visualizations to make data more accessible

**University of Colorado**, Boulder, Colorado

August 2022 - December 2022

*INFO 2131: Information Ecosystems*

- Generated social worlds model at a micro, meso, macro level to understand data flow within the Office of Faculty Affairs
- Collaborated between university department and project team through effective communication for a dataflow deliverable
- Communicated project findings to the Office of Faculty Affairs in interpreting data flow and weak spots within OFA informing 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, writing research papers, and presenting to present at an exposition
- Adapted a project lead's ideas into a tangible survey to assess 60 program participants perceptions of the research lab resulting in a published paper
- Systematized data collection using a Python script generating a database of 300 individuals resulting in two accepted papers
- Attended weekly meetings to reach rigorous deadlines aiding in increased research production and efficient methods
- 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*

- Clarified assignment expectations to students in class leading to a more satisfactory experience in the course for students
- Coordinated with students about special circumstances resulting in a more equitable grading policy for the course
- Balanced workload between other graders and course Professor through frequent meetings to meet grading deadlines

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

May 2023 - August 2023

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

- Write surveys for summer camp engagement and generate data dashboards in Microsoft Excel for program evaluation
- Advocated for fair play for students of all abilities and ages to participate in group activities raising camp satisfaction among students and parents
- Guided survey data analysis by providing insider knowledge resulting in a more informed analysis

**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*

- Mentor 15-20 students who qualify for low-income housing in their community center creating in a pro-social environment for students to engage with
- Created a program for students to develop leadership, self-advocacy, and self-confidence resulting in 10 weeks of curriculum
- Coordinated with other local resources to generate ample resources and opportunities for students to learn from