

# Katy Miles

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## Education

### Colorado State University

Master of Science in Statistics

GPA: 3.01

2022-Present

Fort Collins, CO

### University of Illinois at Urbana-Champaign

Bachelor of Science in Statistics, Minor in Geography and GIS, Certificate in Data Science

GPA: 3.87 | Campus Honors Program | LAS Dean's List | Highest Distinction in Statistics

2022

Urbana, IL

## Research

### CHP Summer Research Grant

2022

Advisor: Wade Fagen-Ulmschneider

- Develop interactive visualizations using D3.js to highlight historical distributions of temperature data

### Senior Thesis

2021-2022

Advisors: Wade Fagen-Ulmschneider and Karle Flanagan

Urbana, IL

- Perform a literature review on climate visualizations with a focus on localized visualizations
- Develop local, interactive climate visualizations using D3.js and NOAA daily weather data

## Work Experience

### Graduate Teaching Assistant

2022-Present

Colorado State University

Fort Collins, CO

- Facilitate weekly recitation sections for STAT 201: General Statistics

### Statistical Analyst

2020-2022

U.S. Geological Survey - Midwest Science Center

Urbana, IL (remote)

- Develop, test, and document R code using web-based Git repositories for statistical analyses
- Import, parse, manage, analyze, and visualize large environmental data sets
- Develop a python package for efficient Seasonal-Trend decomposition using Fast Fourier Transform

### Undergraduate Assistant Course Developer

2021-2022

University of Illinois at Urbana-Champaign: MATH 227: Linear Algebra for Data Science

Urbana, IL

- Develop course material that showcases linear algebra applications in python

### Lead Undergraduate Course Assistant

2020-2022

University of Illinois at Urbana-Champaign: STAT 107: Data Science Discovery

Urbana, IL

- Attend weekly labs and office hours to answer student questions
- Help with course development by writing lecture review questions accessible on the public course website

### Data Analyst

2020-2021

ATLAS Internship

Urbana, IL

Advisor: John Gallagher

- Use Rstudio to perform statistical analysis and sentiment analysis on large corpuses containing text files

## Skills

Technical Skills: R, Python, Java, C++, D3.js, HTML, CSS, Markdown, Jupyter Notebook, Gitlab, GitHub, ArcGIS

Communication Skills: Poster Presentation Experience, Classroom teaching