Education

Colorado State University

Will complete May, 2024

Master of Science in Statistics

Fort Collins, CO

University of Illinois at Urbana-Champaign

2022

Bachelor of Science in Statistics, Minor in Geography and GIS, Certificate in Data Science Campus Honors Program | LAS Dean's List | Highest Distinction in Statistics

Urbana, IL

Research

Statistical Consulting Project | Advisor: Dr. Ann Hess

2023

- Perform statistical analysis on data relating to cheddar cheese in order to determine if starter culture application has an impact on sensory characteristics.
- Fit mixed models and computed contrasts between treatments for sensory characteristics using R

CHP Summer Research Grant | Advisor: Dr. Wade Fagen-Ulmschneider

2022

• Develop interactive visualizations using Javascript, CSS, and HTML to highlight historical distributions of national maximum and minimum temperature data.

Senior Thesis | Advisors: Dr. Wade Fagen-Ulmschneider and Dr. Karle Flanagan

2021-2022

- Perform a literature review on climate visualizations with a focus on localized visualizations
- Develop interactive climate visualizations using Javascript, CSS, and HTML to display yearly weather patterns using NOAA daily weather data
- Allow the option to customize the visualization for specified locations (1,000 total cities)

Work Experience

Web Developer

DAWN - Dashboard for Agricultural Water Use and Nutrient Management

2023-Present

- Create visualizations in python and javascript for the DAWN website to inform farmer decision making
- Utilize MongoDB to access temperature and precipitation data bases

Graduate Statistical Consultant

Consult researchers and graduate students in a wide range of fields on statistical analysis

2023- Present

• Aid in statistical interpretation and statistical software usage

Graduate Teaching Assistant

2022-Present

Colorado State University

- Acted as sole instructor for summer online session of STAT 301
- Facilitated weekly recitation sections for STAT 201: General Statistics

Statistical Analyst

2020-2022

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

Lead Undergraduate Course Assistant

2020-2022

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

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

Skills

Technical Skills: R, Python, Javascript, D3.js, HTML, CSS, Markdown, Jupyter Notebook, GitHub, ArcGIS Communication Skills: Poster Presentation Experience, Classroom teaching