# BRODY ERLANDSON

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## EDUCATION

**PhD in Statistics**, Colorado State University — 2022 - Current
**GPA**: 3.81/4.00

**M.S. in Data Science**, University of Michigan — April 2022
**GPA**: 3.97/4.00

**B.S. in Mathematics**, Eastern Michigan University — December 2019
**GPA**: 3.95/4.00 | Minor in Philosophy | **Honors**: Deans list and Summa Cum Laude

## EXPERIENCE

**Graduate Teaching Assistant** — August 2022 - Present
Colorado State University — *Fort Collins, CO*

- STAT 204 Statistics With Business Applications, STAT 301 Introduction to Applied Statistical Methods, STAA 574 Methods in Multivariate Analysis, STAA 575 Applied Bayesian Statistics.

**Student Research Assistant II: Nielsen Consumer Panel Research** — March 2021 - August 2022
University of Michigan — *Ann Arbor, MI*

**Lecturer (Part-time)** — May 2022 - August 2022
Washtenaw Community College — *Ann Arbor, MI*

- MATH 197 Linear Algebra: Taught two sections. One in-person and one online.

**Graduate Student Instructor** — August 2021 - April 2022
University of Michigan — *Ann Arbor, MI*

- STATS 250 Introduction to Statistics (two lab sections), STATS 413 Linear Regression Analysis (one lab section)

## PROJECTS & RESEARCH

**Nielsen Consumer Panel Research** Assisted Dr. Robert Manduca, Dept. Sociology, University of Michigan

- We used the Nielsen Consumer Panel data to see how purchasing habits differ among different socioeconomic groups. Conducted data manipulation and cleaning, EDA, simple analysis, dimension reduction, and clustering methods for the data.

**Identifying Musical Instruments in an Audio Recording with Recurrent Neural Networks** With support from Dr. Andrew Ross.

- I explored using deep learning to recognize instruments in an audio file. I originally did so by simulating the audio files by mixing singular instrument notes, and modeled with a Recurrent Neural Network. I am currently working on updating this project to get a better outcome, and make the project available on my GitHub.

**Class Projects** Many class projects were done throughout my masters. My favorite being a mixed effect model for finding teen violence association with a counties economic state.

## SKILLS

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|---|---|
| **Modeling** | Regression, Supervised Learning, Unsupervised Learning (Clustering and Dimension Reduction). |
| **Programming Languages** | Python, C++, R, and SQL. |
| **Other** | Data Manipulation, Git/GitHub, LaTeX, High Performance Computing, and Linux Command-line |
| **Soft Skills** | Communication, Problem Solving, Creativity, Project Management, Leadership. |