





Heather Johnston

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EDUCATION

University of Michigan *Expected Graduation April 2022*
M.S. in Applied Statistics Ann Arbor, MI

Mount Holyoke College *Graduated May 2019*
B.A. in Statistics & Sociology South Hadley, MA

- Graduated *magna cum laude* and with high honors in sociology

EXPERIENCE

Art of Problem Solving Academy *July 2020 — August 2020*
Math Instructor Remote

- Taught mathematical concepts and skills to elementary and middle school students
- Adapted curricula for different learners, including developing supplemental materials

Mount Holyoke College Department of Statistics *September 2017 — May 2019*
Teaching Assistant South Hadley, MA

- Graded Intermediate Statistics, Applied Regression Methods, and Probability assignments
- Coached students in interpreting statistical models and programming in R

Mount Holyoke College Library and IT Services *June 2017 — May 2019*
Senior Student Assistant South Hadley, MA

- Performed queries to obtain data for budget management reports
- Cleaned data and managed resource records using Excel and library catalogue software
- Collaborated to refine data management systems and write documentation

Forjando Mi Mañana *June 2018 — August 2018*
Digital Library Development Intern Panajachel, Guatemala

- Designed and developed digital library to make resources accessible electronically
- Provided enrichment lessons for students ages 5-16 in technology, math, and English

RESEARCH

Short Text Topic Modeling *June 2021 — Present*
Advised by Dr. Johann Gagnon-Bartsch University of Michigan

- Researched and fine-tuned NLP models with transformer models such as BERT, BART, and Pegasus to develop topic modeling workflow for short texts
- Implemented workflow for case study of tweets about COVID-19 vaccines

Undergraduate Honors Thesis *September 2018 — May 2019*
Advised by Dr. Timothy Malacarne Mount Holyoke College

- Title: Demographic differences in access to formal sex education in the United States
- Analyzed complex survey data from the National Survey of Family Growth with R and Stata in order to determine predictors of receipt of reproductive health education

PROJECTS

Phone Banking Web App *July 2021 — Present*

- Developed web application using Python with Flask deployed on Heroku to support phone banking campaign to pass the Green Future Act in Massachusetts
- Maintained web app and PostgreSQL database in collaboration with political organizers

SKILLS

Technologies: R, Python, SQL, Flask, Git, Docker, Heroku
Languages: English (native) & Spanish (conversational)