

# Melanie McCord

PHD STUDENT

College of William and Mary

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## Education

### College of William and Mary

PHD STUDENT IN COMPUTER SCIENCE

Williamsburg, VA

August 2023 - Present

### New College of Florida

BACHELOR OF ARTS IN COMPUTER SCIENCE, MINOR IN STATISTICS

Sarasota, FL

May 2023

- Honors Thesis: Medical Relevancy of Cancer-Related Tweets and Their Relationship with Misinformation

### Miami Dade College

ASSOCIATE OF ARTS

Miami, FL

August 2019

- Dean's List for all full-time semesters

**Relevant Coursework:** Ubiquitous & Mobile Computing, Systems Security, Applied Time Series Analysis, Categorical Data Analysis, R for Data Science, Computer Vision, Distributed Computing, Linear Algebra, Machine Learning

## Research Experience

### NicheVision Forensics

RESEARCH INTERN

Summer 2023

Akron, OH

- Analyzed DNA sequencing mixture data in Python using the Scikit-Learn and Pandas libraries.
- Estimated the number of contributors using random forest and decision tree models.

### Pacific Northwest National Laboratory

SULI RESEARCH INTERN

Summer 2022

Richland, WA

- Preprocessed image data using AWS SageMaker, OpenCV, and TensorFlow.
- Implemented object detection and part-of-speech tagging.

### Penn State University

RESEARCH INTERN

Summer 2021

State College, PA

- Preprocessed text data in Python, extracted tweets from Twitter API, and detected COVID-19 misinformation.
- Created a website with Flask backend and deployed the model to detect fake news given a URL.

## Projects

COVID-19 DASHBOARD

April 2021

- Used Angular and Firebase to develop a scientific literature page about COVID-19 vaccines

STRESS ANALYSIS ON REDDIT

Fall 2021

- Visualized and analyzed stress-related Reddit data using the Tidyverse and Tidytext R packages.

FANFICTION VS CLASSIC LITERATURE

Spring 2022

- Set timelines, stretch goals, and determined analyses for a group of 5 to analyze textual differences.

## Teaching Experience

### TEACHING ASSISTANTSHIPS

**CSCI140:** PROGRAMMING FOR DATA SCIENCE (WILLIAM AND MARY)

Fall 2023

**CSCI2400:** OBJECT-ORIENTED PROGRAMMING (NEW COLLEGE OF FLORIDA)

Spring 2023

**STAN2800:** DEALING WITH DATA II (NEW COLLEGE OF FLORIDA)

Spring 2023

**CSCI2400:** R FOR DATA SCIENCE (NEW COLLEGE OF FLORIDA)

Fall 2022

**CSCI2400:** DEALING WITH DATA I (NEW COLLEGE OF FLORIDA)

Spring 2022

## Publications and Presentations

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### POSTERS

1. McCord, M., & Hamid, F. (2023). Medical Relevancy of Cancer-Related Tweets and Its Relation to Misinformation. *The International FLAIRS Conference Proceedings*, 36. <https://doi.org/10.32473/flairs.36.133364>

## Awards & Achievements

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### SCHOLARSHIPS

- 2021 Grace Hopper Conference Scholar
- 2021 Tapia Conference Scholar

## Skills

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### Python, R, JavaScript, Java

PROGRAMMING LANGUAGES

### CSS, HTML, LaTeX, Markdown, RMarkdown

MARKUP LANGUAGES

### Sci-kit Learn, NLTK, OpenCV, TensorFlow

PYTHON FRAMEWORKS

### React, Angular, Firebase

JAVASCRIPT FRAMEWORKS

### CSV, JSON, XML

DATA INTERCHANGE FORMATS

### Git

VERSION CONTROL