

# JESSICA GRAY

## Data Scientist

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🔗 https://github.com/jgray07    in https://www.linkedin.com/in/jessicabgray/



## EDUCATION

- MSc Data Science

University of North Carolina Wilmington

GPA: 4.0/4.0
- 📍 Wilmington, NC

📅 2021-2022
- MSc Mathematics

University of North Carolina Wilmington

GPA: 3.93/4.0
- 📍 Wilmington, NC

📅 2019 - 2021
- BSc Mathematics and Statistics

University of North Carolina Wilmington

GPA: 3.98/4.0
- 📍 Wilmington, NC

📅 2016-2019

## PROJECTS

- Fraud and Deceit: An Exploration of Medicare Spending

Project Lead

📅 Sep 2021 - Present

Proposed and led a project in SAS seeking to discover if Medicare fraud has been committed by excluded providers across the United States.
- Analysis of Atlantic Hurricane Season Trends

Course Project

📅 Sep 2021 - Dec 2021

Created complex visualizations, and analyzed historical atmospheric data, of Atlantic hurricanes using Python to determine trends and extrapolate possible future patterns.
- Computer-aided Diagnosis of COVID-19

Master's Thesis, Mathematics and Statistics

📅 Aug 2019 - May 2021

Employed various machine learning techniques to increase the performance of xRGM-Net to accurately diagnose SARS-COV-2 using Python and TensorFlow.
- Finding the Lower Bound: An Application of the Probabilistic Method on a Ramsey Type Problem

Honor's Thesis, Honors College

📅 Dec 2018 - Dec 2019

Established the lower bound of a new Ramsey type number by application of the probabilistic method.

## WORK EXPERIENCE

- UNCW COVID Surveillance

University of North Carolina Wilmington

Assistant Data Scientist

📍 Wilmington, NC

📅 Aug 2021 - Dec 2021

Produced weekly reports and data sets for the university analyzing the efficacy of UNCW's COVID surveillance procedures alongside a team of two other data scientists.
- Arts & Sciences/Learning Resource Center

Cape Fear Community College

Transitions Instructor, Math

📍 Wilmington, NC

📅 Aug 2020 - Present

Instructed multiple online and in-person sections of CFCC's remedial math course.
- Summer Ventures Machine Learning

University of North Carolina Wilmington

Administrator; Lecturer

📍 Wilmington, NC

📅 May 2021 - Aug 2021

Coordinated and instructed five teams of students in the application of machine learning and analytical methods to a semester-long interdisciplinary project, resulting in two of the supervised teams winning conference presentation slots at a state-level conference.
- Stapleton Research Lab

University of North Carolina Wilmington

Statistical Programmer

📍 Wilmington, NC

📅 Dec 2018 - Dec 2019

Programmed simulations to detect genotype to phenotype association in plants. Analyzed phenotype and covariate data remotely utilizing high performance supercomputer clusters. Directed project investigating the effect of plot structures on maize phenotypes.

## CERTIFICATIONS

- 📄

Certificate of Completion in Clinical Research Foundations

2018
- 📄

CLRA Level III Master Certified Tutor

2018

## HONORS/AWARDS

- 📅 2019

Gene T. and Elizabeth J. Fales Scholarship
- 📅 2018

Pi Mu Epsilon Mathematics Honor Society
- 📅 2017

Donald Watson Scholarship
- 📅 2017

Phi Kappa Phi Honor Society
- 📅 2016

George H. Chadwick Scholarship

## SKILLS

Python

SQL

SAS

R

TensorFlow

PyTorch

AWS

GCP

HPC

Microsoft PowerBI

Microsoft Office

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## STRENGTHS

- Collaboration

Communication

Critical Thinking

Empathy

Hard Working

Multi-tasking

Organization

Self-Motivated

Strategic

Time Management

## REFERENCES

- Dr. Tracy Chen

@ chenc@uncw.edu

✉ Dept. of Mathematics and Statistics

601 South College Road

Wilmington, NC 28403
- Dr. Valerie Rider

@ riderv@uncw.edu

✉ Dept. of World Languages and Cultures

601 South College Road

Wilmington, NC 28403