


Kevin McCoy

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EDUCATION

Ph.D. in Statistics

Expected May 2027

- Rice University, Houston, TX — NSF GRFP Fellow, GPA: 3.82/4.0

B.S. in Biomedical Engineering

May 2022

- Georgia Institute of Technology, Atlanta, GA — With Highest Honor, GPA: 3.97/4.0

SKILLS

Programming

R, Python (NumPy, pandas, Matplotlib, seaborn, scikit-learn, TensorFlow/PyTorch), C++, MATLAB, SQL, Linux, Git, Parallel Computing, Terminal, LaTeX, Neo4J, Tableau

Machine Learning

Supervised and Unsupervised Learning, Deep Learning, Natural Language Processing, Graphical Models, High Dimensional Data, Reinforcement Learning, Computer Vision

Statistical Modeling

Descriptive and Inferential Statistics, Bayesian Inference, Time Series Forecasting, Data Visualization

EXPERIENCE

Graduate Research Assistant

May 2023 – Present

The University of Texas MD Anderson Cancer Center — Houston, TX

- Developed an R package using C++ that improves Bayesian tree-based ensemble models in the presence of measurement error.
- Designed an ensemble meta-learner to make better predictions for grouped data and applied the novel method to predict best treatments for rare types of sarcomas.
- Trained and validated machine learning prediction models to accurately identify blood vessels in CT scans for the purpose of automatic quality assurance for patient imaging.

Oak Ridge Institute for Science and Education Fellow

May 2024 – August 2024

U.S. Food and Drug Administration — Silver Spring, MD

- Used machine learning to characterize the relationships among biosimilar product quality attributes and their clinical performance.
- Expedited the review of biosimilar drug applications to the FDA and decreased reliance on clinical trials.

Technical Team Lead

May 2020 – May 2022

Laboratory for Pathology Dynamics, Georgia Tech — Atlanta, GA

- Led a diverse research team of 10+ undergraduate and graduate students.
- Used NLP to predict repurposed drugs and risk factors for COVID-19 from biomedical literature.
- Developed novel network clustering algorithms and text mining systems for knowledge graph with 300K nodes and 20M edges.

Data Science Intern

May 2021 – August 2021

Georgia Tech Office of Research — Atlanta, GA

- Enhanced visibility into campus research operations by utilizing research administration and commercialization data.
- Conducted data mining, cleaning, and wrangling on multiple data sources internal and external to Georgia Tech.
- Constructed a Neo4J graph database to store researcher data and visualization tools to display graph.

AWARDS AND RECOGNITION

National Science Foundation Graduate Research Fellowship Program (GRFP)

March 2023

Georgia Tech Department of Biomedical Engineering Outstanding Senior

March 2022

Georgia Tech 2022 Sigma Xi Best Undergraduate Research Award

March 2022

The Ken Kennedy Institute Graduate Recruiting Fellowship

February 2022