

TOM TIGER

Memphis, TN • 901-000-0000 • ttiger@memphis.edu • www.linkedin.com/tomtiger

EDUCATION

University of Memphis, Memphis, TN
Bachelor of Science, Mathematical Sciences
GPA: 3.8/4.0

Expected Graduation: May 2026

- Relevant Coursework: Probability & Statistics, Linear Algebra, Calculus I–III, Mathematical Modeling, Discrete Mathematics, Data Analysis, Differential Equations, Numerical Methods

SKILLS

- Mathematical & Statistical Tools: MATLAB, R, Python (Pandas, NumPy), SPSS, LaTeX
- Programming: Python, SQL (basic), Excel (advanced formulas, Solver, pivot tables)
- Analytical Areas: Regression, Hypothesis Testing, Optimization, Probability, Numerical Methods

RELEVANT EXPERIENCE

University of Memphis-Applied Mathematics Group, Memphis, TN
Undergraduate Research Assistant – Applied Mathematics Group

January 2024 – Present

- Collaborated with a team of 3 to develop a differential equation model for predicting the spread of invasive species; results used in a published department report
- Used MATLAB to run simulations and perform sensitivity analysis, increasing model accuracy by 20%
- Presented findings at the university's Spring Research Forum to an audience of over 100 students and faculty

St. Jude Children's Research Hospital
Data Analysis Intern

June – August 2024

- Cleaned, organized, and analyzed 10,000+ data points using Python and Excel for a donor analytics project
- Created dashboards in Google Sheets that helped identify a 15% drop in engagement by age group, enabling targeted outreach
- Wrote a 10-page final report summarizing data trends and statistical insights for the executive team

PROJECTS

Predictive Analytics with Regression Models

Spring 2024

- Built and evaluated linear and logistic regression models to predict student performance using attendance and test data
- Achieved an R^2 score of 0.86; used visualizations (Matplotlib/Seaborn) to support recommendations to faculty

Scheduling Optimization with Linear Programming

Fall 2023

- Designed an optimization model to minimize employee scheduling costs using Excel Solver and basic Python scripting
- Reduced hypothetical staffing costs by 18% while ensuring shift coverage constraints were met

CERTIFICATIONS

- Introduction to Data Science – Coursera/edX/[Platform], [Year]
- Excel for Business – Microsoft/Coursera, [Year]

ACTIVITIES & INVOLVEMENTS

- Member, American Mathematical Society (AMS) Student Chapter