

Sariyah Amélie Sintayehu

+1 434-466-0855

amelie@sintayehu.me

linkedin.com/in/ameliesintayehu

Charlottesville, VA

EDUCATION

Kenyon College

Gambier, OH

BA of Mathematics and Statistics

May 2026

Major: Mathematics and Statistics; Focus: Statistics

GPA: 3.6; Honor: President's Scholarship

London School of Economics and Political Science

London, United Kingdom

General Course Program

Academic Year 2025–26

Relevant Coursework: Multivariate Calculus; Proofwriting and Discrete Mathematics; Linear Algebra; Data Analysis; Probability and Distribution Theory; Machine Learning; Bayesian Inference; Nonparametric Statistics

RESEARCH AND ACADEMIC PROJECTS

Diagnosis and Suggestive Treatment of Coronary Artery Disease (CAD) — London, UK

Spring 2025

- Fit several statistical models for early CAD screening like logistic regression, classification trees and random forests
- Implemented a gradient descent logistic regression algorithm with L_2 regularization with strong predictive results
- Random forest model achieved 95% predictive accuracy based solely on a patient's heart rate and serum cholesterol

Differences in Efficiencies of Pathfinding Algorithms — Gambier, OH

Spring 2024

- Interested in determining how efficient different pathfinding algorithms were on mazes of varying size complexities
- Implemented two of the three pathfinding algorithms — A* and depth-first search — used for the experiment
- ANOVA regression concluded that depth-first search was the fastest and most consistent over A* and Dijkstra's

Intersexual Differences in Antarctic Penguin Species — Gambier, OH

Spring 2024

- Explored differences of 3 penguin species' body masses via morphometric, taxonomic and ecological characteristics
- Contributed to exploratory data analysis and created 6 prediction intervals total of each penguin species by sex
- Produced a shrinkage value of 3.19% from cross-validation indicating good predictive accuracy in our model

EXPERIENCE

Kenyon College

Gambier, OH

Writing Center Tutor and Liaison

January 2024 — May 2024

- Enhanced writing and revision skills for 50+ students across various majors, improving academic performance
- Appointed by the Elements of Statistics professor as Writing Liaison to aid students in statistical writing
- Coordinated over 25 appointments and contributed revisions to 140+ pages while balancing coursework and clubs

American Sign Language Teaching Assistant

August 2023 — May 2024

- Selected by the instructor to teach ASL twice weekly, resulting in deeper fluency and cultural immersion
- Developed and taught 45+ engaging lesson plans through signed song covers, exercises and competitive games
- Collaborated regularly with the professor on challenging concepts to improve student comprehension

Grader for Elements of Statistics Course

August 2023 — December 2023

- Communicated with the instructor to address common errors and plagiarism, adhering to Kenyon's policies
- Standardized grading practices with the other section's grader to maintain equal assessment
- Automated personalized feedback generation with Python, reducing time grading by 40% while enhancing quality

acac Fitness & Wellness Center

Charlottesville, VA

Information Technology and Marketing Intern

June 2022 — August 2022

- Answered 100+ help desk tickets from club members and employees, contributing to the backlog for the IT team
- Located and purged 12,000+ infrequent member contacts to reduce HubSpot's quota usage for the marketing team
- Managed duties over 3 clubs and worked with 7 employers, adapting quickly to different environments and teams

SKILLS

Computer/Technical: LaTeX (advanced); R / RStudio (advanced); Python (advanced); Git / GitHub (advanced)

Languages: English (native); American Sign Language (limited professional proficiency)