Sariyah Amélie Sintayehu

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EDUCATION

Kenyon College　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Gambier, OH
BA Mathematics and Statistics　　　　　　　　　　　　　　　　　　　　　　　　May 2026
Major: Mathematics and Statistics; Focus: Statistics
GPA: 3.6; Honor: President's Scholarship (merit-based)

London School of Economics and Political Science　　　　　　　　　London, United Kingdom
General Course Program　　　　　　　　　　　　　　　　　　　　　　　Academic Year 2024–25

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

RESEARCH EXPERIENCE

Diagnosis and Suggestive Treatment of Coronary Artery Disease (CAD) — London, UK　　　　Spring 2025
- Implemented a gradient descent logistic regression algorithm with L2 regularization with strong predictive results
- Fit logistic regression, classification trees and random forest models for earlier and cheaper CAD screening
- Random forest model achieved 95% predictive accuracy only requiring 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 A* and depth-first search algorithms and maze-generation program used in the experiment
- Applied ANOVA regression and found that depth-first search achieved faster and more consistent traversal

Intersexual Differences in Antarctic Penguin Species — Gambier, OH　　　　　　　　Spring 2024
- Analyzed morphometric, taxonomic and ecological features across 3 penguin species for predicting body mass
- Created prediction intervals for sex-based body mass differences and contributed to exploratory data analysis
- Achieved a 3.19% shrinkage metric from cross-validation confirming strong predictive accuracy

WORK EXPERIENCE

Kenyon College　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Gambier, OH
Writing Center Tutor and Liaison　　　　　　　　　January 2024 — May 2024; August 2025 — Present
- Enhanced writing and revision skills for 50+ students across majors, improving clarity and academic performance
- Appointed liaison by the Elements of Statistics professor to support students in statistical writing and interpretation
- Coordinated 25+ appointments and contributed feedback to 140+ pages of student work

American Sign Language Teaching Assistant　　　　　　　　　　　　　August 2023 — May 2024
- Selected by the course professor to teach ASL twice weekly, enhancing cultural immersion and linguistic fluency
- 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 course professor to address common errors and plagiarism, adhering to Kenyon's policies
- Standardized grading practices with the other section's grader and faculty to maintain equal assessment
- Automated personalized feedback generation with Python, reducing time grading by 40% while improving 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, reducing 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

LEADERSHIP & ORGANIZATIONAL INVOLVEMENT

Member of the Black Student Union — Kenyon College　　　　　　　　　August 2023 — Present
Co-Founder and Vice President of the American Sign Language Club — Kenyon College　　August 2023 — May 2024
Secretary for the Black Student Union — Kenyon College　　　　　　　　August 2023 — May 2024

SKILLS

Computer/Technical: LaTeX (advanced); R (advanced); Python (advanced); C++ (intermediate); Git / GitHub (advanced)

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