

Lilian Mathias Ngweta

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EDUCATION

Doctor of Philosophy - PhD in Computer Science

Graduation Date: May 2023

Rensselaer Polytechnic Institute, Troy, New York

Research Area: Machine Learning

Bachelor of Science in Software Engineering

August 2014 - May 2018

Barrett, The Honors College at Arizona State University (ASU)

Major GPA: 3.69/4.00 (Dean's List)

WORK EXPERIENCE

Research Assistant, Rensselaer Polytechnic Institute, Troy, New York

May 2019 - Present

- Developing machine learning methods for finding factors that are putatively causal to healthcare trends.
- Developing machine learning methods for identifying subjects that have distinct healthcare trends and methods for finding factors that distinguish them from others.

Teaching Assistant, Rensselaer Polytechnic Institute, Troy, New York

Fall 2018 - May 2019

- Helped students in the Database Systems class better understand homework problems and course concepts.
- Graded weekly assignments, exams, and provided feedback on problems that students did not do well.

Research Intern, Microsoft, Microsoft Research AI, Redmond, Washington

May 2018 - August 2018

- Developed an application for assessing the performance of the Azure Brainwave Image Classification Service with video streams. The application used the Azure Brainwave Image Classification service to classify images from videos as the video played. We then measured how fast the Azure Brainwave Image Classifier classified the images.
- Successfully demoed and presented the results to the team and invited guests.

Research Assistant, Data Mining and Machine Learning Lab at ASU

August 2017 - May 2018

- Developed a geographic visualization system for misinformation and examined how fake news spreads in the United States (US).

Research Intern, Northeastern University (DREU Program), Boston, Massachusetts

May 2017-July 2017

- Developed a physical fitness storytelling Android application for families from low-income neighborhoods.
- Conducted research interviews and prepared research materials for a Human-Computer Interaction project that will advance research around using health-monitoring tools to support healthy behaviors for children in low-income families.

Software Engineering Intern, Niafikra Group Limited, Mikocheni, Dar-es-Salaam, Tanzania

Summer 2016

- Developed a to-do list web application for students. Built the application front-end using Java, and the Vaadin Framework. The backend used a MySQL database for storing tasks and user information.

SKILLS

Programming Languages

Python, R, Java

Spoken Languages

Fluent in English, Swahili, and Hehe

Relevant Coursework

Machine Learning, Data Mining, Data Science,
Linear Algebra

HONORS AND ACHIEVEMENTS

Anita Borg Institute Grace Hopper Celebration Scholarship Recipient (GHC Scholar)

October 2017

MasterCard Foundation Scholars Program Full College Scholarship Recipient

August 2014 – May 2018