

SPENCER OBIERO

sobiero@uvm.edu • <https://www.linkedin.com/in/spencer-obiero-82456a272> • (207)330-0030

EDUCATION

Bates College, Lewiston, Maine Expected Graduation 2025 *Bachelor of Arts, Major: Mathematics and Physics; Minor: Economics, GPA 3.7/4.0*

Kenya Scholar Access Program (KenSAP) March 2020 - December 2020 Participated in rigorous SAT training, college application workshops, pre-university preparatory programs, leadership development programs and professional development programs

Nairobi School, Nairobi, Kenya; *GPA: 3.7/4.0* February 2015 - November 2018 Activities and societies: Deputy Head of School, school rugby team captain

Relevant Coursework

Quantum mechanics, Calculus, Linear Algebra, Differential Equations, Econ Statistics, Econometrics, Classical Mechanics, Galaxies and Cosmology, Probability, Circuits and electronics, Preparations for Careers in Mathematics (Community-based data science), Spacetime-waves-and-photons

EXPERIENCE

Simons Foundation, New York May - August 2024 *Research assistant: Center for Computational Quantum Physics*

- I programmed and ran metropolis hastings monte-carlo simulations in order to approximate a 2D electron gas of fermionic particles.
- Participated in machine learning workshops to employ some deep learning techniques into approximation methods for quantum many-body problems.

Bates Galaxy Lab, Lewiston, Maine May 2022 - July 2022, May 2023 - July 2023, *Astrophysics Research Assistant*

- Collaborated in a group of three to analyze data from Sloan Digital Sky Survey for HiZEA galaxies to study its star formation rate and revolution.
- Worked with Professor Alex Diamond-Stanic from the department of physics to visualize the data and report findings to alumni and donors.
- Conduct literature review and design idea methods for data visualization of the galaxies of type E and A.

Student Academic Support Center, Lewiston, Maine January 2022 - Present *Course Attached Tutor (TA)*

- Provide peer support to students in Linear Algebra(2024), Statistics and Probability (2023), Calculus(2022)

Shamas Rugby Foundation, Nairobi, Kenya Aug 2020 - Aug 2021 *Coach*

- Developed academic programs and tutored students for national exams in March 2021.
- Organized rugby training for twenty rugby players to enhance their skills for rugby competition.

Shamiri Institute, Nairobi, Kenya May 2021 - July 2021 *Thrive Fellow*

- Led a group of 15 high school students in 5 different schools to improve their mental well-being by implementing the Shamiri mental health intervention.
- Researched about cultural experiences relating colonization and decolonization of Kenyan people.

Shining Hope For Communities (SHOFCO), Nairobi, Kenya Feb 2020 - March 2020 *Apprentice*

- Worked with local authorities to create job, education, and funding opportunities for locals to help relief the impact of COVID-19
- Managed sanitation projects to distribute sanitizers and soap to community members.

EXTRACURRICULAR ACTIVITIES

Bates Rugby Football Club, Lewiston, Maine September 2021 - Present *Player - Coach*

- Coordinate with the head coach to organize training sessions for the Bates 7s rugby team.
- Competed in National Collegiate Rugby: New England Small Colleges Conference.