Shalom Omollo

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EDUCATION

Bachelor of Arts in Psychology and Public Health, Columbia University   **Expected December 2022**

John W. Kluge Scholar (awarded to less than 10% of undergraduates). Wallace A. Gray Prize in Literature Humanities Finalist.

Relevant Coursework: Essential Data Structures in C/C++, MATLAB Programming for the Behavioral Sciences (A-),
Fundamentals of Human Brain Imaging Analysis in Python and MATLAB (A+), Data Science and Health Equity in R (A+)

EXPERIENCE

Research Scientist Intern   **Summer 2022**

Ensho Health

- identify novel clinical algorithms
- design and develop research protocols
- analyze primary and secondary data with statistical software packages (i.e. Python, R, Excel)
- contribute to the algorithm development lifecycle, from prototype to delivery
- prepare research reports and other technical documentation

Research Assistant   **May 2022 – Present**

Rosetti Lab | **Department of Biomedical Informatics | Columbia University Irving Medical Center**

- create and use machine learning tools to analyze unstructured healthcare data
- extract healthcare data using SQL from large datasets

Optometric Assistant   **November 2019 – August 2021**

Northern Vision Care

- perform pre-screening of all patients which includes taking medical histories and performing preliminary tests to up to 100 patients per day for four optometrists in a timely manner
- operate various machines including kerato-refractometer, tono-pachymeter, FDT, fields machine and lensometer
- operate optical coherence tomography (OCT) to take images of various parts of the eye (macular, disc, fundus)
- compile training manuals for front desk, contact lens ordering, and pre-screening roles
- utilize VisualEyes to book appointments, perform recalls, validate health cards, take payments and OHIP billing
- recovered over 25,000 of unpaid balances from patients and third-party payers (i.e. insurance companies)
- manage contact lenses inventory, pricing, order, and delivery of thousands of lenses ensuring that stock is refilled and not expired using self-made Excel tracking system

Research Assistant **| Columbia University Irving Medical Center**   **January 2017 – May 2019**

Goldman Lab | **Department of Pathology and Cell Biology**   (May 2018 – May 2019)

- analyze tissue sections using ImageScope and traditional microscopic slides
- characterize pathology using Western blots and immunohistochemistry

Cosentino Lab| **The Taub Institute | Columbia University Irving Medical Center**   (Jan 2017 to Sep 2018)

Research Focus: Occupational Complexity and Financial Literacy in Older Adults (awarded five research grants)

- recruit, schedule, and deliver battery of assessment to over 60 participants
- input, manage, and analyze collected data using SPSS and Excel
- review IRB protocols and ensure compliance
- assist with the preparation of posters and manuscripts for publication

Chief of Operations (previously Undersecretary-General for Programming)   **November 2016 – February 2019**

Columbia Model United Nations Conference and Exposition

- oversee all logistical and operational aspects of conference attended by over 1000 students, advisors, and staff with an six figure operating budget
- develop and maintain conference website on Square Space
- oversee registration of almost 1000 delegates using WuFuu
- oversee contracts with various vendors relating to catering, space rental, and hotel registration

Member   **April 2016 – December 2018**

Premier's Council on Youth Opportunities | Government of Ontario

- make recommendations on how ministries can enhance their policies to better reach youth, particularly marginalized, immigrant, and rural youth
- plan, lead, and facilitate community discussions within my home community

PROFICIENCY

Microsoft Office Suite. Google Suite. C. MATLAB ®. SPSS. Python. R. VisualEyes.