

AUGUSTINA ASHIE

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CAREER OBJECTIVE

Recent graduate with a Master in Biomedical Informatics that has proficiency in the statistical and genomic analysis of datasets. Experienced in processing large biomedical datasets with a focus on microbiology, genetics, and molecular biology. Results-oriented and eager to land a role where I can use my bioinformatics skills and biological knowledge to discover treatments to better the lives of people with acute and chronic illness.

TECHNICAL SKILLS

- Programming & Data Analysis: R, Python, Unix/Linux command line, SQL/MySQL, LIMS, data visualization;
- Bioinformatic Tools: Next-generation sequencing (NGS) data analysis, statistical analysis, machine learning;
- Data quality assessment, ability to form & test hypotheses, and to spot confounding variables.

GENERAL SKILLS

- Strong interpersonal and intrapersonal skills allowing for effective collaboration and time management skills.
- Proficient in Microsoft Word, Excel, PowerPoint, and Outlook.
- Proven ability to be efficient by using organization skills;
- Strong communication skills and can work effectively in a fast-paced environment.

EDUCATION

Master of Biomedical Informatics, Biomedical Informatics

2024

QUEEN'S UNIVERSITY

KINGSTON, ON

Computational Genomics Laboratory, Department of Biomedical and Molecular Science

- Project under the supervision of Dr. Qingling Duan: *Investigating the effects of maternal health status on the human milk microbiomes of mothers in the CHILD Cohort Study.*
 - Used high performance computing, R, and Linux programming to employ data analysis and genomic analysis techniques on large, complex datasets.
- Relevant coursework: Processing Biomedical Data, Biomedical Data Analysis, Data Mining & Applications, Applied Statistical Learning, Evolutionary Optimization.

Non-Degree Program

2019

UNIVERSITY OF TORONTO MISSISSAUGA

MISSISSAUGA, ON

- Completed courses in Virology and Immunology.

Post-Graduate Diploma, Advanced Biotechnology

2019

DURHAM COLLEGE

OSHAWA, ON

- Placement completed as Laboratory Assistant.
 - Used Microsoft Excel and employed analytical thinking, organization and data management skills to populate spreadsheets to order materials required for the microbiology laboratories.

Honours Bachelor of Science, Biology

2017

WILFRID LAURIER UNIVERSITY

WATERLOO, ON

- Degree obtained with a concentration in cell, molecular & microbial biology, and genetics.
- Minors in Chemistry and French.

PROFESSIONAL EXPERIENCE

Graduate Research Student

2023 – 2024

QUEEN'S UNIVERSITY

KINGSTON, ON

- Performed research in the Computational Genomics Lab in the Department of Biomedical and Molecular Science
- Used R to perform general linearized models (GLMs), genome-wide association studies (GWAS), gene-environment interaction analysis (GxE). Employed SLURM computing to submit jobs to execute code in an efficient manner for statistical and genomic analysis.
- Collaborated with other Masters students and PhD students on projects relating to the human milk microbiome, infant polygenic risk scores, and maternal haplotypes & secretor status.

Analyst I, Microbiology

2021 – 2023

BUREAU VERITAS

MISSISSAUGA, ON

- Performed over 1000 daily enumeration analysis of bacteria in food, water, and environmental samples submitted by clients to ensure their products were CFIA-compliant.
- Tasks included following SOPs and government-approved methods for enumeration, species identification tests, and used LIMS to enter results for each test specified by clients.
- Recognized OOS results and reported them to the Team Lead. Adhered to quick TAT by effectively keeping up with daily deadlines for timely release of test results to clients.

Sample Logistics Technician

May 2021 – Dec 2021

BUREAU VERITAS (formerly Maxxam Analytics)

MISSISSAUGA, ON

- Received, inspected, and used data entry skills to initiate sample preparation of low-risk and high-risk samples from +200 clients daily.
- Used LIMS software to log, update, create sample identification labels, and change sample information.
- Worked in a fast-paced environment while punctually relaying samples to lab analysts for testing.

Quality Control Intern

May 2019 – Aug 2019

VIATRIS (formerly Mylan Inc.)

TORONTO, ON

- Completed a variety of assignments provided by the Quality Control Manager and QC team.
- Recreated and edited SOPs, reviewed some Change Controls for any potential errors, and analyzed FTIR results.
- Tracked and monitored inventory of samples in the laboratory using Lab Sample Tracker.
- Recognized for my ability to follow procedures and consistently support the QC team in all areas.