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|  | Paul David Glenn IIMcGill University3rd Year Student Faculty of Agricultural and Environmental Sciences |  |
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| Contact438-830-2789Glennpaul12345@gmail.com | ObjectiveI am interested in research in a diverse range of fields, including biotechnology, microbiology, molecular biology, medical interventions, and nursing. I have gained valuable skills through evaluating scientific literature; a research internship funded by the National Security Agency of the United States of America; and courses in biology, R programming, pathology, infection prevention and control, physiology, cellular biology, evolutionary biology, developmental biology, and molecular biology. I am currently pursuing a Bachelor of Science (Agricultural and Environmental Sciences) in Honours Life Sciences with a concentration in Microbiology and Molecular Biotechnology. My goals are to apply these skills and knowledge in a work environment to contribute to developing technologies and discoveries that help communities.  |
| EducationBSc Honours Life Sciences (2020 - present)McGill University 21111 Lakeshore Road, Sainte-Anne-de-Bellevue, Québec, Canada H9X 3V | ExperienceMay 2022 – August 2022 Intern • McGill Department of Food Science and Agricultural ChemistryI participated in creating a summer research experiment to discover the microbe-microbe interaction between salmonella serovars and E. coli strains, based on virulence provided by the type 6 secretion system. I perform competition assays between E. coli and Salmonella, then count the colony forming units to estimate the abundance of each organism. This process involves pipetting, incubating bacteria, preparing media, autoclaving, using the biological safety cabinet, serial dilutions, calculations, measuring optical density, using a centrifuge, graphing, and writing a research paper. My research project was funded by Dr. Jennifer Ronholm and the Natural Sciences and Engineering Research Counsel of Canada.  February 2022 – April 2022Research Assistant • McGill Department of Civil Engineering I sampled wastewater for the analysis of domestic wastewater to characterize viruses. I participated in weekly lab meetings to contribute to the wastewater analysis strategies and give updates on my sampling. The analysis provided an estimate of the number of active COVID cases in the building from which I sampled. June 2021-August 2021Summer Program in Research and Learning • Intern • American UniversityI led and participated in a research group of six researchers to research the impact of risk factors on maternal mortality rate in the Dominican Republic. We formed a hypothesis, then collected data, analyzed data, formed conclusions, then collaboratively wrote a research paper. This program was funded by the National Security Agency of the United States of America.  |
|  | Research Publications and Seminars*October 3, 2021*Research seminar • Relevance of Risk Factors in Maternal Mortality Rate in the Dominican Republic*May 31, 2021* Peer review • Asian Journal of Research in Surgery I peer reviewed a publication from the Asian Journal of Research in Surgery. *February 19, 2021* Research seminar • Statistical Power Analysis of ANOVA with Application to Count Data from Intestinal Polyp Incidence in ApcMin/+ Mice |
|  | Attended Conferences*October 2-3, 2021*MATHFest • National Association of Mathematics*August 4-6, 2021*NBNA 49th Annual Conference • National Black Nurses Association |
| Key SkillsTeamworkResearch TechniquesLeadershipTime Management | LeadershipI was a researcher in a team of 6 researchers in the SPIRAL internship, offered by American University and funded by the National Security Agency of the United States. This internship took place from June 2021 to August 2021. My team analyzed the most important risk factors for maternal mortality in the Dominican Republic. We collected data, cleaned data, analyzed data, and wrote a research paper about our findings. We performed correlation and regression analyses to find a relationship between risk factors and maternal mortality. I led during the paper writing process. I greeted everyone at every session and maintained a supportive work environment. I coordinated the completion of the paper by assigning the writing of parts of the paper according to each of the team members' strengths and previous contributions to the research. I assigned some of the methods part of the paper to the person that was familiar with the programming of the analysis. I assigned the thorough revision of that section to myself and others that were familiar with programming. I assigned myself to write a part of the paper about the COM-Poisson regression and assigned two other people familiar with the regression to review it. Lastly, I kept track of the progress of the research paper and the roles each person played to make sure that everyone completed their role and that the paper was on track to being completed early. |