
Qianhui (Venus) Hong

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PROFILE

- Fourth year McMaster University undergraduate student specialized in honors biology and environmental science program with a concurrent Geographic Information System (GIS) certificate, passionate in seeking an opportunity to gain work experience in GIS and data analysis.
- Detail-oriented, patient, and curious, willing to learn new advances. Strong communication skills.
- Capability of working outdoors and in adverse weather conditions.
- Ability to operate a vehicle with a clean Driver's Abstract. Ability to travel.
- Software proficiency: Microsoft Office Suite (Word, Excel, PowerPoint, Outlook), Esri's ArcGIS products (ArcGIS Pro, ArcGIS Online, ArcGIS Storymaps, etc.), R and ENVI.
- Training: WHMIS safety training and U21 Common Purpose Global Citizenship.
- Languages: Fluent in verbal and written Mandarin, English, and Cantonese.

EDUCATION

Honors Biology and Environmental Science (B.Sc.)

Class of 2023

McMaster University, Hamilton, ON

- McMaster Entrance Award Scholarship (2019) for academic achievement in secondary school (for academic excellence).
- **Relevant coursework:** ENVSOCTY 4GA3 Spatial Statistics, BIOLOGY 3SA3 Applied Stats for Biology, ENVSOCTY 3GI3 Advanced Raster GIS, ENVSOCTY 3GV3 Advanced Vector GIS, ENVSOCTY 3SR3 Remote Sensing.
- Major labs and projects:
 - ENVSOCTY 4GT3 Spatial Topics Lab 6: Experience Builder: Hamilton Explorer.
 - ENVIRSC 4EA3 Environmental Assessment Assignment 4: Historical investigation of a city block in Hamilton, Ontario through FIP and spatial information.
 - BIOLOGY 4CI2 Senior Thesis: Bee Genera Community Abundance and Diversity across Disturbed Urban Habitats.

RELEVANT EXPERIENCE

Library (Maps) and GIS Assistant

Lloyd Reeds Map Collection at Mills Library, Hamilton, ON

- Scan and digitize library maps and build up a more complete digital archive.
- Create an inventory list of topographic maps and air photos for easy access to future references.
- Answer inquiries and provide general information for locating collections and services.
- Georeference and digitize paper maps into web maps.

Lab Assistant

McMaster University, Hamilton, ON

Bee Lab

2021.11 - 2022.8

- Processed field samples of insects and identifying bee species to help determine local bee population.
- Worked with graduate students' thesis projects, reported data into excel spreadsheet and ensured data accuracy and integrity.
- Applied field work skills and collected pollinator specimens. Identification of wildflowers on-site.

Microplastics Lab

2022.1 - 2022.4

- Sieved soil sediment samples into particles of different sizes and measured microplastics under optical microscope and software.

Research Assistant

2021.6 - 2021.11

Lawrence Berkeley National Laboratory, Berkeley, California

- Responsible for assessment of ecotoxicity of PFAS-free formulations in soil invertebrates and generated reports for local government.
- Identified relevant articles and background literature to assist with writing an introduction to a new journal article.
- Utilized R Studio to deal with toxicity data and drew dose-response curve which will be contributed to the development of a scientific paper publication.

EXTRACURRICULAR AND VOLUNTEER ACTIVITIES

- EyeSee Initiative (a student-lead association) Vice President of Education Committee
- International Students Upper Year Buddy
 - Support incoming students in transitioning and accommodating university from high school.
 - Provide insights on living in Hamilton and adapting Canadian cultures and lifestyles.
- Outdoor activities, gym workouts.
- Leadership Expedition Program in Africa
 - Bootcamp and training preparation for five months.
 - Climbed Mt. Kilimanjaro for six days and reached the summit successfully.