

VIVIAN CHU

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SUMMARY OF QUALIFICATIONS

- Exceptional critical thinker, with precise analytical skills and over 4 years of key experience in project management and communication
- Excellent team player and possesses strong research and interpersonal skills, as demonstrated as an Exploration Science Intern at the Canadian Space Agency
- Highly skilled at prioritizing and completing deadline sensitive tasks efficiently, evidenced by research and volunteer work with Humber River Hospital
- Extremely proficient in: Excel, Zotero, Endnote, InDesign, Illustrator, Lightroom, Photoshop, Premiere, Flash, Word, Powerpoint

RELEVANT EXPERIENCE

Exploration Science Intern

Canadian Space Agency, Astronauts, Life Sciences & Space Medicine

Sept-Dec 2019, Jan-April 2019
Saint-Hubert, QC, CA

- Designed and systematically established an internal **Oracle database** for the organization of Health & Life Science space activities
- Developed a data visualization interface in **Python** for Health & Life Science business & experiment analytics
- Conducted a meta-analysis for the verification of molecular biology techniques for the implementation of a lab-on-a-chip bio-analytic platform on the International Space Station
- Authored a systematic review on the *Natural History of Space Diseases* through literature reviews and consultations with Mission Scientists and Flight Surgeons

Project Leader, Discovery Program

University of Toronto, Institute of Biomaterials and Biomedical Engineering

Sept 2016-April 2017
Toronto, ON, CA

- Awarded First Place in Physics at the IBBME Discovery Symposium on The Science Behind Prosthetics after showcasing research posters to a panel of judges (senior engineers, professors, teachers, industry)
- Designed, developed and prototyped a 3D-printed transfemoral prosthetic model using CAD programs (**SolidWorks, AutoCAD**)
- Lead and motivated a group of four students by developing short and long term goals and addressing conflicts

Research Assistant

Humber River Hospital, Professional Practice

May-Sept 2018
Toronto, ON, CA

- Innovated and created efficiencies in data collection and survey management using **Excel** and automated online surveys
- Facilitated structured interviews with medical personnel and participated in department daily safety huddles
- Presented weekly and monthly data analysis reports to research team, and provided technical support for and assistance with the monitoring of data collection and quality assurance activities

VOLUNTEER EXPERIENCE

Outreach Volunteer

Let's Talk Science

Jan 2018 - Present
Toronto, ON, CA

- Engage young students (K-12) in curriculum-aligned, hands-on science activities through school visits
- Communicates complex scientific concepts through explanation and demonstration to students
- Strengthened leadership skills as a mentor to students, sharing experiences and providing advice

EDUCATION

University of Waterloo

2017-22

Candidate for Bachelor of Science, Honours Co-operative Biology **Waterloo, ON, CA**
Honours Co-operative Biology, Microbiology Specialization, Bioinformatics Minor

AWARDS

2017 Merit Scholarship
University of Waterloo

2017 Canadian Scholar
Horatio Alger Association of Canada

2015-17 Silver & Bronze Award
Duke of Edinburgh Award

2017 The Governor General's Academic Medal
George Harvey Collegiate Institute

2016 School Champion
Fermat Waterloo Math Contest,
University of Waterloo

EXTRA-CURRICULAR ACTIVITIES

2018-Present Planning & Operations Committee Member
Waterloo Students and Microbiology,
ext. Waterloo Center of Microbial Research

2019 Media Coordinator
University of Waterloo, Science Society

2018 Orientation Leader
University of Waterloo, Faculty of Science Orientation