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SUMMARY OF QUALIFICATIONS

- Lab experience in microscopy and morphometrics.
- Comfortable using P20, P100, P1000, multi-channel pipettes and Pasteur pipettes.
- Familiar with research software like BORIS for data collection and R for data visualization & statistics.
- Trained in WHMIS, EOHSS Health & Safety, CAF Fish Handling, & certified as a Nuclear Energy Worker.

EDUCATION

Enrolled in Honours Psychology, Neuroscience & Behaviour (BSc.) MCMASTER UNIVERSITY, HAMILTON, ON

2019 - present

Ontario Secondary School Diploma, English Achievement Award for 3 years UNIONVILLE HIGHSCHOOL, MARKHAM, ON

2015 - 2019

🖶 WORK & VOLUNTEER EXPERIENCE

Research Assistant 2021 - present

WILSON TOXICOLOGY LAB, HAMILTON, ON

Project 1: Effects of metformin on larval & adult zebrafish | Dr. Joanna Wilson & Dr. Oana Birceanu

- Dissected fish to collect tissue samples (brain, liver, gill, kidney, gonad, intestine, and muscle).
- Imaged 300+ larval zebrafish at 5 life stages and completed morphometric measurements on images.
- Performed fish care tasks like feeding, water quality checks, water changes, and water sampling.

Project 2: Macromolecule & water content in lake whitefish tissue. | Environment & Climate Change Canada

- Used Pierce BCA protein assay and standard curves to determine protein content.
- Carried out lipid extraction using chloroform-methanol lipid assay.
- Determined water content of tissue by incubating samples in a laboratory furnace.

Project 3: Glycogen content in fathead minnow brains. | Environment & Climate Change Canada

• Completed glycogen extraction using perchloric acid (PCA) method.

Research Project Student

2021 - present

AQUATIC BEHAVIOURAL ECOLOGY LAB, HAMILTON, ON

Project 1: Leadership behaviour in the endangered redside dace. | Dr. Sigal Balshine & Dr. Andy Turko

- Mastered new software (BORIS) to collect experimental data from video observations.
- Analyzed collected data in Excel & created data visualizations in R, presented results in 5min talk.

Project 2: Antioxidant adjustment during social ascension in cichlids. | Dr. Sigal Balshine

Created clear graphical abstract that highlighted key findings for scientific paper.

Children Ministry Intern

2019 & 2020

MILLIKEN CHRISTIAN COMMUNITY CHURCH, SCARBOROUGH, ON

Led and prepared work schedule for volunteer teams & planned events with intern team.

- Developed weekly activity plans for children with a focus on cognitive and fine motor skill development through crafts, rudimentary coding, and story time.
- · Problem-solved by adapting traditionally in-person events into online format.

Camp Counsellor 2019

VILLAGE EULOGIA FOR FAMILITIES WITH SPECIAL NEEDS, TORONTO, ON

- Provided one-on-one support to children with Down's Syndrome and autism.
- Maintained calm and patience when children were agitated and problem-solved to diffuse situations.
- Learned to be highly observant & communicate creatively with non-verbal children.

Fracture Clinic & Inpatient Mental Health Care Volunteer

2018

MARKHAM-STOUFFVILLE HOSPITAL, MARKHAM, ON

- Organized patient flow calmly under fast-paced environment and supported doctors by preparing clinic rooms for incoming patients.
- Managed patient records while adhering to strict patient confidentiality.

Summer Daycamp Leader

2016 - 2020

MILLIKEN CHRISTIAN COMMUNITY CHURCH, SCARBOROUGH, ON

- Supervised and interacted with a group of up to 15 children ages 5-8.
- Developed weekly activity plans for children with a focus on cognitive and fine motor skill development through crafts, story time and LEGO Education sets.

ACHIEVEMENTS & EXTRACURRICULARS

Annual Ontario Psychology Undergraduate Thesis Conference (AOPUTC)

2021

- Presented my poster and talk "Simon Says: Leadership Behaviour in Redside Dace". (poster link)
- Placed top 10% out of 200+ undergraduate thesis presentations as a 2nd year student.

LEAP Canada Creative Director

2020 - present

• Led creative team in developing branding, marketing materials, and website from scratch.

English Achievement Award, Unionville Highschool

2017, 2018, 2019

• In recognition of written and spoken English communication skills, awarded for 3 consecutive years.

Student Council Creative Director, Unionville Highschool

2017 - 2019

Toronto Youth Network Graphic Designer

2017 - 2019

SKILLS & INTERESTS

Art & Design: skilled in Photoshop CC, Illustrator CC, and Sony Vegas Pro for graphic design & video editing. Portfolio can be found at: jessicaqiu.myportfolio.com.

Bilingual: English and conversational Mandarin.

Programming: basic skills in R for data visualization and statistics.

Girl Scout (6 Years): comfortable in the outdoors, can swim & equipped with survival skills.

JESSICA QIU · RÉSUMÉ