

# Jessica Qiu

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## ✔ SUMMARY OF QUALIFICATIONS

- Comfortable using lab instruments like a microscope, pipette & Pasteur pipette, homogenizer, spectrometer, centrifuge, YSI meter, pH meter & thermal oven.
- Experience in isolating & analyzing protein, lipid, and water content in tissues.
- Trained in WHMIS, EOHSS Health & Safety, CAF Fish Handling, & certified as a Nuclear Energy Worker.
- Familiar with research software like BORIS for behavioural scoring, R and Excel for basic data analysis, & AxioVision for morphometrics.
- Enthusiastic and conscientious worker with a passion for helping others.

## 🎓 EDUCATION

**Enrolled in Honours Psychology, Neuroscience & Behaviour (BSc.)** 2019 - present  
MCMASTER UNIVERSITY, HAMILTON, ON

**Ontario Secondary School Diploma, English Achievement Award for 3 years** 2015 - 2019  
UNIONVILLE HIGHSCHOOL, MARKHAM, ON

## 🛠️ 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

- Sampled zebrafish tissues (brain, liver, gill, kidney, gonad, intestine, and muscle).
- Imaged 360+ larval zebrafish at 5 life stages and completed morphometric measurements on images.
- Assisted in the laboratory's animal care program for zebrafish, whitefish, and yellow perch, completing 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 protein and lipid assays to determine the % lipid, protein, and water in muscle tissue.

**Research Project Student** 2021 – present  
AQUATIC BEHAVIOURAL ECOLOGY LAB, HAMILTON, ON

**Project 1:** *Leadership behaviour in the endangered redbreasted 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 5 min talk.

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

- Created clear graphical abstract that highlighted key findings for a 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 FAMILIES 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 - 2019

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

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### 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 2<sup>nd</sup> 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

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**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](https://jessicaqiu.myportfolio.com).

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

**Bilingual:** English and conversational Mandarin.

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