




FLORA GUO

 github.com/floraguolr
 [in/floraguolr](https://in.floraguolr)
 lrguo@uwaterloo.ca

PROJECTS

Sentimo App | Frontend/UX Lead

September 2020 - present

Developed a mobile voice journal and mood tracker that performs voice sentiment analysis via an **on-device neural network**

Designed and developed the user interface using **Figma** and **Android Studio**

Effect of Aerobic Fitness on Cortisol Response and HPA-Axis Reactivity at Different Aerobic Exercise Intensities

August 2020

Researched exercise-induced cortisol response as **co-author**

To be published in the **Health & Fitness Journal of Canada** in 2021

Investigating the Viability of a Piezoelectric Insole to Harvest Kinetic Energy

January 2020 - April 2020

Designed and prototyped a piezoelectric energy harvesting insole with the Future Science Leaders engineering incubator program

Published results in **2020 eSTEAMed Science World Journal**

EXPERIENCE

Hanaya Japanese Restaurant | Server

October 2018 - October 2020

Trained incoming servers and catered to patrons' needs in a friendly and efficient manner by creating orders, processing payments and serving meals

Computed daily revenue values, calculated tips, and balanced cash register

UBC Physics & Astronomy Outreach | Instructional Assistant

July 2019 - August 2019

Actively seized initiative by **designing and leading a lesson plan** on the **Standard Model** of particle physics for students in grades 8-10

Assisted instructors by preparing daily lesson material and guiding students

Geering Up Engineering Outreach | Junior Instructor

August 2018, August 2019

Supported instructors in the classroom by assisting with activities and managing students, designed weekly lesson plans

EDUCATION

Honours Biomedical Engineering (B. Asc) & Co-op Candidate, University of Waterloo

Anticipated Graduation in 2025

Engineering Society Secretary, Inclusivity Director, and Cohort Representative

Biomechatronics ENABLE team member

SKILLS

Languages and Technologies

C#, Python, HTML/CSS/JS, Git

Engineering

Iterative design framework, Solidworks, soldering, 3-D printing

LEADERSHIP

Semi Science Club | President

Mar 2020 - Mar 2020

Coordinated and oversaw **STEM outreach event** for 50+ local elementary students

Lead weekly STEM activities & challenges for 30+ person club, created & managed **digital marketing**

Semiahmoo STEM Outreach Module Coordinator

June 2019 - Feb 2020

Managed creation & quality of STEM lesson plans that reached **800+ local students** (grades 4-7) to date

AWARDS

Mike Chen Academic Excellence Award (June 2020)

2019

1st Place, 41st Annual **UBC Physics Olympics** (BC-wide)

1st Place, KPU Science Challenge (400+ competitors)

Top AA Band, **Lionel Hampton Jazz Festival**

INTERESTS

Accessible healthcare, UI/UX, STEM outreach, machine learning, frontend development, jazz, reading, and baking