

Ziyuan Guo

Curriculum Vitae

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Citizenship: China

EDUCATION

Master of Environmental Toxicology Candidate

Simon Fraser University, Burnaby, BC

09/2022-present

Bachelor of Science Honours, Majoring in Biology and Minor in Chemistry

Trinity Western University, Langley, BC

01/2017-04/2021

GPA: 3.73/4.3

Core courses taken:

Graduate: Ecological effects based toxicity tests, food and drug toxicology, environmental toxicology seminar, biochemical toxicology, quantitative analysis of research studies

Undergraduate: Cell biology, microbiology, immunology, vertebrate zoology, invertebrate zoology, non-vascular plant biology, plant physiology, general ecology, plant ecology, marine ecology, classic and molecular genetics, conservation biology, biochemistry, biosynthesis, organic chemistry, analytical chemistry, environmental chemistry

PROJECT EXPERIENCE

1. Toxicological impacts of road salt pulses on *Hyaella azteca* and *Chironomus dilutus* in urban salmon streams of the Vancouver Lower Mainland, **Master of Environmental Toxicology Project** (Dr. Vicki Marlatt and Dr. Chris Kennedy, Supervisors) Starting in 05/2023
 - Part of a five-year research program on the impact of road salt on pacific salmon success
 - Looking at the impact of road salt on key salmon preys
 - Examining the effects of salt pulses at low temperatures on the survival and growth of *Hyaella azteca* and *Chironomus dilutus*
2. Dendrochemical Analysis of Western Redcedar (*Thuja plicata*) as a Method for Investigating Environmental Pollution History of Copper and Zinc from a British Columbia Mine Site, **Undergraduate Thesis** (Dr. Paul Brown, Supervisor) 09/2020-04/2021
 - A two-semester project that has been presented at the University's Undergraduate Research Conference
 - Determined Zn and Cu in dendrochronological samples collected from *T. plicata* in a historically polluted area
 - Showed dendrochemical analysis of *T. plicata* is a valid method for investigating environmental pollution history of Zn, but not Cu
3. Nicomekl River Floodplain Restoration Project, **Collaborator** 01/2021-04/2021
 - Commissioned by Langley Environmental Partners Society (LEPS) to investigate environmental issues in the Nicomekl River Floodplain in Langley, BC as part of a conservation biology course
 - Proposed management strategies in regard to invasive plants, erosion, and human impacts
 - Identified and reported issues and potential solutions to Langley City via LEPS

AWARDS & HONOURS

- Academic Dean's List, Trinity Western University (every semester except Spring 2019)
- President's Scholarship, Trinity Western University (Fall 2017-Spring 2021, every semester)
- Dean's Scholarship, Trinity Western University (Spring 2017)

SKILLS & HOBBIES

- Mountaineering
- Amateur Radio Direction Finding (ARDF), Second Place in the Chinese National Tournament
- Orienteering, Sixth Place in the Chinese National Tournament

WORK EXPERIENCE

Teaching assistant. Developmental biology. <i>Simon Fraser University, Burnaby, BC</i>	09/2022-12/2022
Food preparation worker. <i>Foodkort Dining Ltd., Vancouver, BC.</i>	05/2021-08/2022