

# Will Kwan

Kelowna, BC | (403) 892-8956 | willrkwan@gmail.com | Portfolio: [willrkwan.github.io/](https://willrkwan.github.io/)

## SKILLS

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- GIS: feature class editing/digitizing, attribute QA/QC, topology rules/domains, geodatabases, spatial joins, georeferencing, map production
- Data/QA: cleaning/validation, transformation, documentation/metadata, statistical testing, error and uncertainty analysis.
- Programming: scripting, SQL querying/joins, relational database design
- Remote Sensing: raster preprocessing/interpretation, supervised classification
- Applied Research: field sampling, data collection protocols

**TOOLS:** ArcGIS Pro, ArcGIS Online, Python, SQL, R, Excel

## PROJECTS

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### Analyzing Kelowna's Walkability

- Built a City of Kelowna Walkability Index (0-100) in Python (pandas) and ArcGIS Pro using five literature-based indicators (proximity, density, diversity, connectedness, and attractiveness) across 1,569 geocoded and QA/QC'd amenities; integrated multiple open datasets and standardized spatial layers
- Engineered statistical and distance-based metrics and indicator rasters; aggregated normalized indicators to generate a final score raster, maps, Dissemination Area rankings, and a report highlighting analytical insights and methodological limitations

## EDUCATION

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**University of British Columbia, Okanagan Campus, Kelowna, BC**

*Expected Graduation June 2026*

Bachelor of Science – Major in Earth and Environmental Science, Minor in Computer Science

Awards: Deputy Vice-Chancellor Scholarship (2021–2024); UBCO Dean's List & Dean's Scholar (2021–2025); Kelowna Geology Committee Prize (2023)

## RESEARCH AND WORK EXPERIENCE

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### Aquatic Biogeochemistry Lab,

**University of Lethbridge**, Research Assistant, *Lethbridge, AB*

*May 2022 – Aug 2022*

- Conducted field sampling of water quality and environmental parameters in wetlands, lakes, and rivers across southern Alberta
- Designed, constructed, and deployed ebullitive gas sampling traps
- Conducted advanced analytical measurements using spectrophotometry and fluorometry
- Processed and organized large datasets using Microsoft Excel and R, including the use of 'StarDOM' software in R for final dataset production

**Arc'teryx**, Product Guide, *Kelowna, BC*

*May 2024 – Sep 2024*

- Customer-facing role emphasizing problem solving, clear communication, in a high-volume retail environment

**Big Fat Lion Bakeshop**, Baker, *Kelowna, BC*

*Mar 2023 – Sep 2023; May 2025 to Sep 2025*

- Managed production workflows and schedules in a high-volume food production environment