

HUILIN TAI

■ Montreal, Canada

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SKILLS

- **Programming:** Java, Javascript, Python, C/C++, R language, SQL, Bash/Shell, MIPS assembly, Matlab
 - **Others:** Linux, circuit design, HTML/CSS, Sketchup, auto-CAD, sketching
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EDUCATION

McGill University, Montreal, QC, Canada

Sep. 2020 - present

Bachelor of Science - Honor probability and statistics, Minor computer science

- Relevant coursework: Analysis, Probability, Statistics, Number Theory, Euclidean Geometry, Biostatistics, Algorithm and Data Structures, Software Systems, Computer System, Programming Language and Paradigms, Computation Theory, Operating Systems, Database Systems, Data Science, Compiler Design, Artificial Intelligence
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WORK & RESEARCH EXPERIENCE

Urban Planning Project

June. 2022 - present

Research Assistant

- Processed transportation data and population data from questionnaires through Python programming.
- Built models and formed visualizations for 5 designing hypotheses, and implemented a tester for minor adjustments.
- Provided justifications to strengthen particular arrangements and testified system efficiency with data.

Harbin Medical University

Biostatistics Research Assistant & co-author

May. 2022 - July. 2022

- Developed survival analysis to estimate if targeting uridine-cytidine kinase 2 could improve the immune response of hepatocellular carcinoma. Implemented an interactive monogram with R language for 1-year, 3-year, and 5-year survival analyst.
- Collected real time data, performed statistical and predictive analysis, created visualizations, and communicated actionable results to the team. Reduced nonstandard data collection and eliminated bias by cleaning the database.

Medical Project

Jan. 2022 - May .2022

Research Assistant

- Launched a GSEA analysis, processed data with different tumor risk levels to analyze the enrichment of KEGG and Hallmark pathways. Identified pathways in the order of Normal-TumorLR-Tumor-HR according to the enrichment output.
- Participated in eveloping diagnosing redirection websites with JavaScript and HTML .

Yooden Technology

Data analyst

Aug. 2019 - Jan. 2020

- Provided 5 trusted advice about changing issues in contracts to help both sides avoid risks.
 - Collaborated with the IT department on the mechanical component consumption and market demand analysis.
 - Drafted sponsor invitation letters for upcoming meetings and led an analysis group to clarify the income report.
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LEADERSHIP AND EXTRACURRICULAR

Simplify McGill

Finance department member

2019 - 2020

- Learned to write monthly income reports and participated in addressing speeches for coworkers.
- Administered the club budget to allocate directly to 5 departments, and led 3 activities sponsored by enterprises.

4D English

2017 - 2019

English volunteer teacher

- Guided over 10 middle school students and improved speaking skills to intermediate level in 8 months.
 - Communicated with students' parents weekly and assessed language status for 12 students, giving each student 5 tips.
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INTERESTS AND OTHER SKILLS

- Constant interest in mathematical competitions, have won several prizes.
- Advanced sketching, handcrafting and painting skills.