

# Myles Ma



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## Work Experience

### LABORATORY TECHNICIAN

*Advanced Electrophoresis Solutions Ltd.* | 2022

- Prepare chemical solutions and perform detailed and complex analytical procedures following SOP's and established test protocols
- Test instrument consumables following established procedures
- Perform sample tests in protein separation and characterization
- Write and review production and quality control related documentation
- Draw, design, and 3-D model different parts in lab-related projects

### VISITING RESEARCH STUDENT

*Université de Montréal* | 2021, 2022

- Working with the Hanessian Group and Prof. Stephen Hanessian in a hands-on organic chemistry lab setting
- Aiding in the process of creating medicinal indole compounds through the execution and monitoring of addition, protection, deprotection, coupling, benzylation, esterification, reduction, cyclization etc. reactions
- Using complex instruments (NMR, LCMS, MS, HPLC) and simple analytical methods to characterize and purify crude compounds
- Utilizing software to draw chemicals, create reactions and present data

### RESEARCH ASSISTANT

*Nexus Laboratories* | 2020

- Conduct secondary research and author a paper with a team

### CONSULTING WITH THE KNOWLEDGE SOCIETY

*Raven Telemetry, Kidogo* | 2019 - 2020

- Create strategic slide decks to help expand their company

## Publications

### COVID-19 in Canada: A Self-Assessment and Review of Preparedness and Response

*Journal of Global Health* | DOI: 10.7189/jogh.10.0203104

### 2-Oxa-5-azabicyclo[2.2.1]heptane as a Platform for Functional Diversity: Synthesis of Backbone-Constrained $\gamma$ -Amino Acid Analogues

*Journal of Organic Chemistry* | DOI: doi.org/10.1021/acs.joc.2c01338

## Volunteer Experience

U of W HK STUDENT ASSOC: ADVISOR & VP 2020-present

Lead and oversee club events, funding, merchandise and participate in major directional decisions regarding the club (University of Waterloo Hong Kong Students' Association)

MET BIBLE CHURCH: USHER

2017-2020

Shook hands and greeted incoming worshippers, handed them bulletins and collected offerings

## Education

University of Waterloo 2020 - 2025  
Second Year | Medicinal Chemistry (Co-op)

The Knowledge Society 2019 - 2020  
Innovator | Current Alumni

SHAD (STEAM & Entrepreneurship) 2019  
Western University | Current SHAD Fellow

Lisgar Collegiate Institute 2016 - 2020  
Gifted Program

## Languages & Skills

- English, Cantonese, Mandarin, (French)
- ChemDraw, FindMolecule, MestReNova
- Word, Excel, PowerPoint, Google G Suite
- AutoCAD (3D Printing), Wix Web Design

## Awards & Certifications

- John Franklin \$2500 Scholarship
- SHAD Alumni \$1000 Science Scholarship
- University of Toronto National Book Award
- 4-time Silver Medal and Honour Roll Recipient
- Honours with Distinction -- RCM Grade 9 Piano
- 2nd place at Ottawa Regional Science Fair
- National Lifeguard
- Standard First Aid, CPR "C", AED
- COVID-19 Plan to Protect Training

## Extracurriculars

- Univ. of Waterloo Varsity Ice Hockey Goaltender (affiliate) and Junior Ice Hockey Goaltender
- Symphonic Tuba Player
- Lisgar Collegiate Institute's Leadership Camp Head, Student Council Executive, Alumni Alliance Executive, Track and Field Sprinter (East OFSAA 2017 Championships), Rugby Winger, Ice Hockey Goaltender and Alternate Captain