

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

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 (unpaid)

CONSULTING WITH THE KNOWLEDGE SOCIETY

Raven Telemetry, Kidogo | 2019 - 2020

- Create strategic slide decks to help expand their company (unpaid)

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 γ -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