Master of Biotechnology

Class of 2023
Student Profile Booklet
Co-op Program 2021-2022
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DIRECTOR’S MESSAGE

Perhaps the single most significant component of the MBiotech Program, at least from the point of view of our students each year, is the Co-op Placement Program. This suite of three courses (BTC 1900Y, 1910Y & 1920Y) earns students up to three full credits towards graduation and, critically, brings them into direct contact with the workplace as a Master’s student. Whilst the Program’s laboratory and classroom courses play important functions during the students’ first seven months with us, no campus-based activities can truly compare to the experiential learning provided “on the job” during the placements.

Over the past 19 years, MBiotech has built an enviably deep roster of sustained relationships with its many major sponsors in the industry, and continues to offer excellent opportunities to all of its students. Likewise, our sponsors are vocal about the benefits such placements bring to their operations. Many of the big players in the biopharmaceutical industry, in particular, are enthusiastic supporters of MBiotech, recognizing the unique blend of science and business skills that our co-op students can offer, and continue to post highly sought-after opportunities year in and year out.

Our goal is to give our students a firm foothold on the career ladder in biotech and biopharma, and this pledge is backed by an unbeaten track record of success for placements both in big, established Pharma, as well as in smaller biotech and health tech companies. Very many graduates leap straight into a full-time career with our sponsors, and nearly all find employment very quickly after graduation day. Conversely, MBiotech students on their co-op placements serve as ambassadors for the Program and reinforce our brand excellence, so it is critical to our future successes that our students represent your company, the University and the Program with commitment and professionalism.

Nazeem Shamsuddin, our Senior Research Associate, has a wealth of experience to help guide our students and employers through the application, interview preparation and decision-making process and will be on hand to offer advice at every stage. As with every MBiotech class, there will be hot competition, and some tough choices to make for all of our students and industry partners. I have actively encouraged all of our students to embrace these opportunities and to learn from them as they take the next steps towards their new careers; and I would like to take this opportunity to thank all of our corporate partners for their renewed support this year: You are fundamental to our success!

Dr. Leigh Revers, M.A. (Oxon), D.Phil.
Director, Master of Biotechnology
Associate Professor (Teaching Stream)
**MBiotech: Where Science Meets Business**

The MBiotech Program is a 24 month, course-based professional degree program offered through the Institute for Management & Innovation at the University of Toronto Mississauga. Offering streams in both Biopharmaceuticals and Digital Health Technologies, the program incorporates both science and business courses with 8 to 12 months of work experience in industry. The carefully selected combination of courses, coupled with relevant industry experience and a strong focus on teamwork, provides our graduates with a truly interdisciplinary educational experience at a world-renowned university.

The program was launched in 2001, with the goal of developing biotechnology professionals with scientific and management skills for the biotechnology industry. The MBiotech Program is specifically tailored to meet the evolving needs of our students and those of the global biotechnology and health sciences sectors.

**MBiotech and IMI:**

**The Institute for Management and Innovation**

The Institute for Management & Innovation (IMI) is the centre for management education at the University of Toronto Mississauga (UTM). This collaborative institute provides students with access to professional masters programs in biotechnology, accounting, innovation and sustainability, and undergraduate programs in accounting, finance, marketing, and human resource management. IMI is a cross-disciplinary institute producing mission-focused managers and future leaders with a combination of management skills and depth in their chosen field. IMI also provides an academic platform to foster close interactions and sharing of expertise between the faculty, staff and students in these programs, along with our community partners.

The Institute for Management and Innovation unveiled a new concentration within the Master of Biotechnology- Digital Health Technologies (DHT) in May 2019.

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**We are committed to:**

- Working closely with industry and developing a graduate program that meets the needs of current employers
- Providing a broad background of in-depth classroom and laboratory based courses relevant to the biotech industry
- Introducing students to a wide range of biotechnology niches in the workplace
- Developing strong business and interpersonal skills in our graduate students
- Interfacing with a wide range of biotechnology and pharmaceutical companies through internships
BIOPHARMACEUTICALS STREAM

The MBiotech Program (Biopharmaceuticals stream) offers 13 graduate courses, in both science and business, over a 24-month period including:

**Science Courses:**
- Molecular Biology Laboratory
- Biomaterials and Protein Chemistry Concepts
- Biotechnology and Medicine
- Biotechnology & Drug Manufacturing
- Biotechnology in Agriculture & Natural Products

**Business Courses:**
- Effective Management Practices
- Fundamental of Managerial Concepts
- Society, Organizations and Technology
- Management of Technological Innovation

**Additional MBiotech Courses:**
- Biopartnering Seminar – full year required course
- Work Term I
- Work Term II
- Work Term III

MBiotech is committed to:
- Working closely with industry and developing a graduate program that meets the requirements of current employers
- Providing a broad background of in-depth classroom and laboratory based courses relevant to biotechnology
- Introducing students to a wide range of current and possible biotechnology niches in the workplace
- Developing strong business and interpersonal skills in our graduate students
- Interfacing with a wide range of biotechnology and pharmaceutical companies through internships

*Training today’s innovative scientists to become tomorrow’s business leaders*
STUDENT QUALIFICATIONS

Training today’s innovative scientists to become tomorrow’s business leaders.

Our interns bring with them a professional mindset, as well as a broad spectrum of learning acquired in both laboratories and the classroom. Our courses focus on topics of special relevance for today’s biotechnology and biopharmaceutical industries. Our current placements largely provide experience in the biopharmaceutical, medical device, diagnostic and related industries.

Our Students’ qualifications:
• Diverse graduate and undergraduate backgrounds in cell and molecular biology, human biology, chemistry, chemical engineering and more
• Highly qualified, bright, committed individuals eager to learn and make the most of their internship opportunity
• Well trained in the diverse aspects of modern biotechnology research and development
• Future team leaders with a firm understanding of organizational skills and the importance of working together to benefit your team

Our students have a professional mindset, as well as a broad spectrum of learning acquired in both laboratories and the classroom that focuses on topics of special relevance for today’s biotechnology and biopharmaceutical industries. Our current placements in the biotechnology industry include pharmaceuticals, medical devices, diagnostics and biofuels. Internships are arranged on a full-time, 4-month renewal basis and can be extended for up to 12 months. Placement timing is flexible and coordinated through the calendar year, commencing every January.

This Student Profile Directory is a guide created for employers and industry partners in order to introduce you to our students. The students presented in this guide are seeking 4, 8, or 12 month work terms beginning in January, May or September of 2021. Our students have multi-disciplinary science backgrounds combined with business aptitude, excellent communication skills and teamwork abilities. The versatile nature of MBiotech students will make them valuable contributors to your organization.

Why Hire An MBiotech Student?

Track Record of Excellence
• Repeat employers and supervisors testify the value of hiring our students

Excellent Recruitment Tool
• Students are rigorously pre-screened by the MBiotech team

Proven Past Employer Satisfaction
• Our 3-year average for placement duration of interns is 12 months (two 4 month renewals are usual)

Co-ops Are Competitive
• Our salary guidelines are in the range of $21-$25 per hour, and as they are students no benefits packages are needed

Fringe Benefits For You
• Employers can benefit from substantial tax incentives! See the section on salary guidelines for more information
CO-OP RECRUITMENT & SCHEDULING

As part of our unique program, students take up to three consecutive work-terms with top employers across Ontario and beyond. All internships are arranged through our Senior Research Associate, where each placement is full time and a minimum of 4 months in duration. As such, co-ops can be extended/renewed up to a maximum of 12 months. Placement time is flexible and is coordinated throughout the calendar year.

Scheduling Guidelines:

In general, co-ops begin at the start of each academic term. MBiotech encourages start dates to begin in January for the first work term, though the specific date is to be set by the hiring company.

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<th>Work Term 1:</th>
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<td>January to April</td>
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<th>Work Term 2:</th>
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<td>May to August</td>
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<th>Work Term 3:</th>
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<td>September to December</td>
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CRITERIA FOR CO-OP PLACEMENTS

Each 4-month co-op placement is classified as a required course for the MBiotech program. As such, students receive academic credit for each placement they successfully complete. Specific criteria must then be satisfied to ensure students receive appropriate credit. Please see below for a full listing of required criteria.

Co-op placements must:

- Be full-time for a minimum of four months (greater than 35 hours per week)
- Have a designated, qualified person responsible for evaluating the student’s progress (please see adjacent section on ‘evaluation component’)
- Provide the student with in-depth exposure to the employer’s organization
- Be developed and/or approved as a suitable setting for higher learning
- Be monitored by the Placement and Employer Relations Coordinator
- Completion of Employer-Student Evaluation. For each 4-month work term the direct supervisor is required to submit the MBiotech program Employer-Student Evaluation
The work terms for MBiotech students are generally paid positions, with an average salary range of $24–$30 per hour. As MBiotech co-ops are students, salary packages generally do not need to include extended benefit plans. Employers may be eligible for the following tax incentive program, in regards to hiring MBiotech students:

*Cooperative Education Tax Credit*

The Co–operative Education Tax Credit (CETC) is a refundable tax credit. The CETC is available to employers who hire students enrolled in a co–operative education program at an Ontario university or college. The Canada Revenue Agency (CRA) administers the program on behalf of Ontario through the federal income tax system.

The CETC is based on salaries and wages paid to a student in a co-operative education work placement. The maximum credit for each work placement is $3,000. Most work placements are for a minimum employment period of 10 weeks up to a maximum of four months.


**SAMPLE CO-OP POSITION TITLES**

MBiotech students, through our industry partners, have had the opportunity to work in all facets of the biotechnology sector. Each employer has the ability to structure and form their work placement(s) as it suits their needs and opportunities. The following placements act to serve only as an example of the types of opportunities previously made available through the MBiotech co-op program:

- Associate Medical Scientist
- Business Development Associate
- Business Development Assistant
- Clinical Trials Coordinator
- Clinical Study Associate
- Compliance Intern
- Consulting Intern
- Equity Research Associate
- International Study Management
- Marketing Assistant
- Marketing Research Assistant
- Medical Affairs
- Medical Sales Representative
- Operations & Support
- Pre-Clinical Biochemist
- Policy Associate
- Project Administrator
- Program and Commercialization Officer
- Quality Control Coordinator
- Reimbursement & Market Access
- Regulatory Affairs Associate
- Research Analyst for Biotech Sector
- Research Associate
- Statistical Process Control Analyst
For more information on hiring an MBiotech student:

Nazeem Shamsuddin  
Senior Research Associate  
Master of Biotechnology  
INSTITUTE FOR MANAGEMENT & INNOVATION  
Innovation Complex, KN 2258  
3359 Mississauga Rd | Mississauga, ON L5L 1C6 | Canada  
905-569-4736 | nazeem.shamsuddin@utoronto.ca  
www.mbiotech.ca
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Over 7.5 years of experience in the Biopharmaceutical Industry including experience as a key team member of the Federal Government’s drive to implement domestic vaccine manufacturing
• Extensive knowledge and experience with the development and cGMP manufacturing of a wide range of biologics for rare diseases as well as vaccines
• Strong leadership, mentorship, and training skills gained through leading teams during biomanufacturing campaigns, as well as leading training initiatives
• Excellent communication skills with an ability to present complex scientific and technical information to people of varied backgrounds, as well as a keen eye for detail honed through preparing major reports and presentations for key clients
• Exceptional organizational, problem-solving and troubleshooting skills gained through successfully leading projects with multiple moving parts and competing deadlines
• Proven and time-tested ability to work well independently and in teams within fast paced, high pressure environments

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• H.BSc – Specialist in Molecular Biology, University of Toronto

EXPERIENCE AND QUALIFICATIONS

• Over 7.5 years of experience with process development for downstream purification processes for a wide range of biologics as well as protein/viral vector vaccines
• Experienced with planning for large scale manufacturing runs which included personnel scheduling, material/vendor management, and training
• In-depth experience with cGMP manufacturing and GLP settings including Batch Production Records (BPRs), SOPs, and validation protocols
• Experienced in collaborating with QA/ QC groups to effect change controls, CAPAs, and to support deviation investigations
• Proficient with scaling processes up to the 500 L scale as well as carrying out process scale down/Scale up, FMEA risk assessments, gap analyses, technology transfer, and process improvement
• Proficient with preparing progress reports as well as organizing, and delivering training sessions, in addition to facilitating one on one mentoring for new employees

PERSONAL INTERESTS

• Gardening, travelling and visiting historical sites
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Enthusiastic self-starter, eager to meet challenges and quickly assimilate concepts as demonstrated by gaining proficiency in AEM/CQ within a week at SciXchange
- Articulate verbal and written communicator with experience writing literature reviews on peer-support groups for patients with cardiovascular diseases and presenting findings succinctly to the Data, Knowledge Management, and Heart Program (DKH) team
- Extensive leadership and problem-solving skills refined through years of experience in mentorship, science outreach, and customer service roles
- Mount Sinai Case Competition, 1st Place (2020)
- Project management experience gained through managing virtual outreach initiatives and adapting to education-related demands and timelines

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Honours Bachelor of Science, Major in Biomedical Sciences, Ryerson University, Class of 2021 – Dean’s Honours List

EXPERIENCE AND QUALIFICATIONS

- Science Outreach and Communication Lead, SciXchange – Managed a team of volunteers and assisted with all facets of outreach, including designing marketing materials to promote events and creating evidence-based content on social media.
- Research Assistant, Heart & Stroke Foundation – Conducted qualitative research on the effects of peer-support groups for patients with cardiovascular diseases, which enabled the creation of resources centered around cardiac rehabilitation.
- Infection Prevention & Control (IPAC) Volunteer, Toronto Grace Health Centre – Performed hand hygiene compliance monitoring; implemented interventions to manage outbreaks by updating IPAC manuals following Public Health Ontario guidelines.
- Sales Advisor, H&M – Developed unique product placement strategies which resulted in exceeding sales objectives by 27% and increase in store inventory turnover by 16%.
- Peer Mentor, Tri-mentoring Program, Ryerson University – Facilitated monthly check-in meetings with first-year students to identify their individual goals and developed targeted action plans to achieve academic success.

PERSONAL INTERESTS

- Science communication and outreach, travelling, digital content creation, photography
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Collaborative and diligent team-player, exemplified through the development of a commercialization plan for a start-up biotechnology company, successfully placing second at the Synapse Life Sciences Competition
- Effective scientific communicator, acquired through authored publications, various conference presentations, and an education in biomedical commercialization, from preclinical trials to marketing and sales
- Innovative, out-of-the-box thinker, honed through taking and teaching an innovation based course, focused on developing novel solutions to common problems faced by our health-care system
- Challenge-seeker, who is always prepared to take initiative and leadership roles in groups, but also an excellent and patient listener, with a high level of empathy and compassion for others - demonstrated through experience on the McMaster University rowing team and successful drug discovery team projects

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Honours Bachelor's of Health Sciences, with Distinction, in Biomedical Discovery & Commercialization (BDC), with a Concentration in Chemical Biology, McMaster University
- McMaster University Prizes for Special Achievement Award (2020), David Braley Centre for Antibiotic Discovery Summer Student Fellowship Award (2020), University of Toronto Institute of Medical Sciences Summer Undergraduate Research Opportunity Award (2019), Dean's Honour List (2017-2021), OUA Rowing Gold Medalist (2017), The McMaster Honour Award (2017)

EXPERIENCE AND QUALIFICATIONS

- Undergraduate Thesis Student - Brown Laboratory, McMaster University: Investigated the global transcriptional response in E. coli to various genetic perturbations pertaining to the Outer Membrane.
- Innovation by Design Teaching Assistant, McMaster University: Assisted in lecturing and grading a fourth-year, Health Sciences course, focused on Design Thinking & Innovation in the Health Care Sector.
- Clinical Researcher at ELLICSR - Cancer Rehabilitation and Survivorship Clinic, Princess Margaret Cancer Centre: Performed ECG measurements, assessed blood pressure, executed user testing on an online module program for cancer survivors, and described findings in a published research paper

PERSONAL INTERESTS

- Cycling, running, swimming, travelling, record-collecting, live music and tutoring
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly motivated, goal-oriented, and passionate individual with valuable experience in research laboratories and team-based workplace settings
• Excellent time-management and organizational skills developed through balancing coursework, research and volunteer commitments, and part-time work while maintaining dean’s list status
• Strong teamwork skills demonstrated through MBiotech team-based projects and five years of experience in fast-paced retail work environments
• Effective troubleshooting and critical thinking skills developed through the completion of an independent research thesis, and through designing analytical data models for business clients
• Commended by supervisors on strong work ethic and scientific writing skills
• Proficient technical skills – Microsoft Excel, Microsoft Access, Structure Query Language (SQL), Statistical Analysis System (SAS), and Python
• Fluent in English, French, and German

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science with High Distinction, Specialization in Pharmacology and Biomedical Toxicology, University of Toronto, Class of 2020
• U of T Dean’s List Scholar, 2016-2020

EXPERIENCE AND QUALIFICATIONS

• Undergraduate Researcher, University of Toronto – Successfully completed an independent research project focusing on the role of protein kinase C delta in the development of hepatic steatosis to contribute to a greater understanding of physiological mechanisms of hepatic insulin resistance
• Research Assistant at the Agrawal Lab, University of Toronto – Investigated the role of sexually antagonistic alleles on fitness and survival rates in drosophila
• Clinical Anesthesia Volunteer, University of Toronto – Ensured post-operative patient safety by monitoring blood pressure and oxygen levels during recovery, and maintained operations through the setup of anesthesia equipment and medicines
• Data Analytics Post-Graduate Certificate – developed programming, data mining, and data analysis skillsets to build predictive models that efficiently support business operations and decision making. Worked with IMAX to develop analytical programs for the company.

PERSONAL INTERESTS

• Travelling, hiking, snowboarding, and playing violin and piano.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Passionate and dedicated, with a strong interest in biomedical commercialization.
• Adept in critical thinking and problem-solving through 3 years of wet-lab research at the University of Toronto and McMaster University.
• Strong organizational and time management skills, effectively balancing academic responsibilities, extracurricular endeavours, and volunteer activities.
• Excellent collaboration skills, having worked closely with professors, entrepreneurs, and students in numerous science and business-related initiatives.
• Proficient leader and communicator, speaking at various seminars and leading numerous classes as a Teaching Assistant or Tutor.

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Health Sciences, Biomedical Discovery and Commercialization, McMaster University, Class of 2020, Dean’s Honour List (2016–2020)

EXPERIENCE AND QUALIFICATIONS

• Research Assistant, ExCellness Biotech (University of Toronto) – Exemplified project management and critical thinking in optimizing a novel protocol to produce fibrillar collagen-coated plates, better mimicking the extracellular matrix in vitro, for commercial sale at an international level.
• Wet-Lab Mentor, iGEM McMaster – Organized scientific workshops and led a sub-team in the development of a commercialization plan, presented at Canada’s iGEM Conference (cGEM) 2020, at which we were awarded a silver standing and Best Academic Innovation.
• 3rd-Year and Senior Thesis, McMaster Immunology Research Centre – Collaborated with mentors and professors to assess beta-glucans as a potential modulator of M2 macrophages, a growing target for fibrotic disease. Employed effective time management to also carry out pre-clinical animal studies, in collaboration with Boehringer Ingelheim.
• Marketing Consultant, Burton Imaging – Worked with entrepreneurs and team members to perform sound analyses, identify marketing challenges, and present a marketing plan that was well-received by professors and the company.
• Peer Mentor, Immigrant Youth Centre – Advocated for inclusion, organizing weekly meetings with young newcomers and speaking at multiple seminars to explore different cultures and practice English fluency.

PERSONAL INTERESTS

• Golf, Bicycle Motocross (BMX), Digital Art (Procreate), Photography, and Snowboarding.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Reliable and collaborative individual, dedicated to team success and coordination
• Excellent problem-solving and communication skills refined through both academic and professional experiences, capable of producing high quality work independently or in a group
• Extensive project management experience demonstrated through Research Coordinator and Research Assistant roles which have provided strong communication, organization, and time-management skills
• Highly motivated and goal-oriented teammate who is always open to new challenges and learning experiences
• Superior leadership abilities enhanced through strong communication and collaboration

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Health Science, Biology & Pharmacology Co-op, McMaster University, Class of 2021; Dean’s Honour List (2016–2021)

EXPERIENCE AND QUALIFICATIONS

• Research Coordinator, Michael G. DeGroote Institute for Pain Research and Care – Organize project goals and timelines and support various systematic reviews, meta-analyses, and guidelines
• Research Assistant, Cornerstone Research Group (now EVERSANA) – Collaborated with various pharmaceutical companies and conducted literature reviews and economic analyses to assess clinical outcomes and support reimbursement
• Pharmacy Assistant, Rexall Pharmacy Group – Efficiently processed and prepared prescriptions in an error-free manner; demonstrated professionalism and strong communication with patients and health care providers
• Undergraduate Thesis Student, McMaster University – Conducted a systematic review and network-meta analysis to determine the comparative effectiveness of pharmacological interventions for acute musculoskeletal pain
• Undergraduate Research Assistant – Designed and executed a series of laboratory studies to determine a more effective drug delivery system for prucalopride (Resotran®)

PERSONAL INTERESTS

• Golf, volleyball, reading, and calligraphy
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly motivated and goal-oriented individual with the ability to quickly learn, adapt, and take initiative in fast-paced work environment
• Proven problem-solving, research, and technical skills developed through research student and technician positions
• Strong communication and oral presentation skills, acquired through academic and professional experiences, exemplified by winning the 1st place (2014) and 2nd place (2015) poster presentation in the Department of Medical Biophysics Poster Fair
• Excellent time-management and organizational skills cultivated through balancing a high-achieving academic career (cGPA 3.98/4) with extracurricular activities and employment
• Exceptional teamwork and interpersonal skills, honed through group projects and mentorship activities

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science with High Distinction, Double major in Pharmacology and Molecular Genetics & Microbiology, University of Toronto, Class of 2016

EXPERIENCE AND QUALIFICATIONS

• Research Technician, McEwen Stem Cell Institute – Supported a multi-disciplinary research project that was aimed to generate functional hepatocytes and cholangiocytes from human pluripotent stem cells. Contributions resulted in co-authorship on a manuscript under review by Nature Communications.
• Research Student, Department of Medical Biophysics at the University of Toronto – Modeled early waves of human hematopoiesis with human embryonic stem cells and presented findings in two research posters.
• Volunteer Emergency Department Receptionist, Toronto Western Hospital – Directed patient flow at the Emergency Department waiting room. Volunteered to be redeployed as an entrance screener during the COVID lockdown.
• Peer Mentor, University of Toronto – Organized bi-weekly academic and social events for first year Life Sciences students. Provided guidance to students to assist their transitions to university life.

PERSONAL INTERESTS

• Cooking, baking, personal fitness, investing, and travelling
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Excellent leadership skills exemplified through peer mentoring, managing employees, and training colleagues in new technology
• Strong communication skills, having written multiple internal Sanofi Pasteur reports, including an FDA deliverable in support of tetanus vaccine manufacturing
• Highly motivated to work collaboratively using a design thinking framework to solve problems creatively
• Superior interpersonal and community-building skills as exemplified by roles as a Residence Soph, Academic Peer Mentor, and English Conversation Facilitator at Western University
• Keen interest and open mindedness in continuous learning, especially about biotechnology and pharmaceutical technologies

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science, Specialization in Genetics with Distinction, Western University, Class of 2021, Dean’s Honor List

EXPERIENCE AND QUALIFICATIONS

• Materials Validation Intern, Sanofi Pasteur Ltd. - Authored official internal reports and worked cross-functionally to ensure product integrity during the manufacturing process within the portfolio. Developed new metric tracking boards and trained other teams to develop their own.
• Franchise Owner, College Pro Window Cleaning - Managed and led a team of 9 employees, completed door-to-door marketing, fulfilled services for 100 customers totaling $23,000 in sales.
• Honours Thesis, Karas Lab, Western University - Designed a minimized synthetic chloroplast genome of the diatom Phaeodactylum tricornutum to develop it as a biofactory host organism.
• Research Assistant, Karas Lab, Western University - Supported research to develop a method for direct inter-kingdom DNA transfer and achieved authorship on the publication. https://doi.org/10.1371/journal.pone.0206781
• Research Assistant, Moehring Lab, Western University - Supported research to determine whether Katanin 60 affects Female Rejection of Males in Drosophila melanogaster

PERSONAL INTERESTS

• Skating (ice, roller), Hiking, Dance, Sewing, Baking
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly motivated and driven to constantly learn in new environments and accept new challenges
• Excellent time management and organization skills developed by balancing a full course load in university along with part-time work, volunteering in the community, and extracurricular activities
• Dedicated team player with many experiences in a team environment including work as a pharmacy assistant at Shoppers Drug Mart, volunteering for Community Living Mississauga, and working with peers in the Masters of Biotechnology program
• Strong attention to detail to work that is exemplified in assignments and projects completed in undergraduate studies leading to a cGPA of 3.95/4.0 in the program

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science with High Distinction, Biological Chemistry Specialist and Biology for Health Sciences Major, University of Toronto, Class of 2021, Dean’s List Scholar (2018–2021)

EXPERIENCE AND QUALIFICATIONS

• Pharmacy Assistant, Shoppers Drug Mart – Ensured prescriptions were filled according to schedule by coordinating data entry, filling, and product check with the pharmacist. Managed weekly inventories to minimize store losses and stock outs. Organized and prepared blister package schedules for more than 50 patients on a weekly basis to ensure patient dose compliance.
• Research Opportunity Program Student, University of Toronto – Worked under the supervision of Prof. Jumi A. Shin, Department of Chemical and Physical Sciences. Investigated how intrinsically disordered loops of a bHLHZ transcription factor can target specific DNA sequences and modulate DNA binding affinity.
• Volunteer, Community Living Mississauga – Worked with program coordinators to assist individuals with intellectual disabilities by expanding their social circles through various planned activities including board games, movie nights, and virtual nature walks.
• Facilitated Study Group Leader, Robert Gillespie Academic Skills Centre – Worked with co-facilitators to develop sessions that guided students on how to approach solving organic chemistry questions by encouraging peer discussion and problem-solving techniques
• Member at Large (Chemistry), Erindale Chemical and Physical Sciences Society – Executed various tasks planned by the council for numerous events and workshops throughout the year, including Meet the Profs Night, Excel workshop, and PI Day

PERSONAL INTERESTS

• Running, ultimate frisbee, curling, chess, board games, video games
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Strong background, knowledge and understanding of advanced concepts in biophysics, biochemistry, statistics, and mathematics.
- Exceptional oral & written communication skills, demonstrated through international scientific conference presentations, and 5 co-authored scientific publications.
- Goal-oriented, dedicated and highly motivated individual accustomed to a fast-paced and dynamic work environment, with expertise in biophysics research.
- Exceptional leadership, mentorship, interpersonal, critical thinking, problem-solving, analytical, data analysis and time-management skills acquired over 6+ years of collaborative scientific research initiatives/projects.

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- PhD. Physics, Biophysics stream, UofT, Class of 2021
- HBSc., Physics & Chemistry Major, Mathematics Minor (UofT), Class of 2014

EXPERIENCE AND QUALIFICATIONS

- Performed high-end research on biophysics research topics using single-molecule fluorescence spectroscopy, and fluorescence imaging techniques.
- Research Assistant at Gradinaru Lab, UofT—Led 3 projects developing fluorescence-based methods to study G protein-coupled receptors (GPCRs) systems; contributed to 2 projects focused on the development and characterization nanoparticle theranostic agents for cancer therapy using fluorescence spectroscopy.
- Responsible for performing experiments, data analysis, data interpretation, high-quality figure production of experimental data, and writing manuscripts.
- Experience in designing/executing biophysics research projects, maintenance of bacterial & mammalian cell lines, and protein expression & purification systems.
- Mentored, supervised, and trained incoming students embarking on novel scientific projects for their thesis.
- Course Instructor UofT: sessional instructor for Quantum Mechanics & Mathematical Physics; wrote and delivered lectures to classes of 40+ students.

PERSONAL INTERESTS

- Hockey, baseball, basketball, travelling, playing the drums, community building, mentorship, & entrepreneurship
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly motivated, determined and results oriented individual with a passion to learn and adapt in a fast-paced dynamic work environment
• Strong time management and organizational skills cultivated from balancing high achieving academics while simultaneously being involved in extracurriculars
• Reliable leader and team player who delivers high quality work consistently
• Excellent oral and written communication skills, acquired through customer service roles, teaching and presentations in academic and professional settings.
• Proven problem solving and analytical skills demonstrated through undergraduate research and lab courses.
• Bilingual proficiency in English and French

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science, Major in Biochemistry and Biotechnology, Minor in Biology, Wilfrid Laurier University, Class of 2021, Dean’s Honour Roll (2017-2021)

EXPERIENCE AND QUALIFICATIONS

• Undergraduate Thesis Student – Independently investigated the structural influence on melting point for pyrazole-based organic supercooled liquids to aid in drug design and electronic device application.
• President of the Laurier Chemistry Association – Successfully led a group of executives and organized social and academic events promoting chemistry. Facilitated meetings, delegated to team members, and oversaw the finances, marketing, and logistics of the club.
• Teaching Assistant, Wilfrid Laurier University – Organized and supervised students in 2 undergraduate courses (80+ students). Explained and oversaw 1st year chemistry wet lab ensuring it ran smoothly and safely.
• Bilingual Customer Service representative, Crawford & Company – Developed customer service and sales skills by handling large volumes of inbound/outbound calls giving personalized, and friendly service to ensure high customer satisfaction and retention.
• Region of Peel Household Hazardous Waste Operator Co-op – Tested and identified Hazardous Waste using knowledge of the chemical properties/incompatibilities of waste. Maintained an accurate accounting system of waste collection activities to ensure compliance.

PERSONAL INTERESTS

• Fitness, Cycling, Cooking, Travelling, Investing and Chess
SUMMARY OF SKILLS AND ACHIEVEMENTS
• Developed critical thinking and applied problem-solving skills through the completion of numerous quantitative projects in the discipline of Economics
• Exceptional communication and presentation abilities as evidenced through several impactful presentations during my four undergraduate co-op placements in front of colleagues, direct managers and members of senior management
• Demonstrated leadership and strong personal communication skills to first year students as a mentor and a representative of the Science and Business Ambassador Team
• Organized and coordinated numerous unique events for all students on behalf of the Science and Business Student Association as the third-year representative
• Proficient in data analysis as seen through the creation of statistical models in econometrics classes in addition to a side project to predict the outcome of professional sports games using tools such as Excel, MATLAB, R and SPSS

EDUCATION
• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Bachelor of Science, Biotechnology & Economics - Co-operative Program (Distinction), University of Waterloo, Class of 2021

EXPERIENCE AND QUALIFICATIONS
• Business Development analyst at Kenota Health – performed research on current available methods of allergy testing, reconstructed the sales forecast and assessed potential market competitors to complement the company’s business development strategy and to continue the development of the reimbursement strategy
• Business Process & Application Analyst at Gluskin Sheff – increased team efficiencies by collaborating with internal stakeholders to outline requirements and facilitated weekly meetings with external CRM vendor to design and implement improvements and updates
• Strategy Coordinator at Softchoice – successfully launched a research project to support the Long-Term Go-To-Market by working internal sales teams, performing financial-based competitor analysis and presented findings to the director of strategy
• Continuous Improvement Analyst at Flipp – developed solutions to mitigate operational inefficiencies and decrease costs in the supply chain by collaborating with account managers, performing cost benefit analysis and conducting time studies

PERSONAL INTERESTS
• Competing in team-oriented sports such as soccer, volleyball and cross country
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Highly self-motivated with 2 years’ experience in manufacturing and quality assurance (QA) for adoptive cell therapy (ACT) products in clinical trials
- Apply creative problem-solving and critical thinking skills to generate innovative solutions as demonstrated by developing a novel functional assay during thesis project
- Detail oriented with excellent organization skills exemplified by successful external and internal audits of the QA program of the TIP Cell Production Team
- Exemplary communication, teamwork and self-management honed through professional, academic, and community experiences
- Highly adaptable with strong independent judgement exemplified by continuous advancement in title at UHN

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Honours Bachelor of Science, Biochemistry Major, McMaster University, Class of 2017, Dean’s Honour List

EXPERIENCE AND QUALIFICATIONS

- Research Technician, TIP Cell Production Team, UHN – Managed equipment, materials, document, deviations, and staff training QA systems to comply with the Foundation for Accreditation of Cellular Therapy (FACT) guidelines. Manufactured autologous infiltrating lymphocytes and TCR-transduced T Cells under GMP standards for ACT clinical trials.
- Research Technical Assistant, Immune Monitoring Laboratory, UHN - Consented and coordinated a healthy donor study to provide human products for cell manufacturing. Performed sample processing for 15 clinical trials and accessioned biospecimen samples into Excel databases for efficient tracking and transfer.
- Honours Thesis Project, McMaster University – Lead the development of a functional assay to investigate the role of non-platelet-activating antibodies in heparin-induced thrombocytopenia (HIT)
- Vice-President of Social Affairs and Academics, McMaster Biochemistry & Biomedical Sciences Society – Planned and facilitated academic events to foster career development and networking with professors prior to thesis placements. Organized social events such as a semi-formal dance seating 150 attendees.

PERSONAL INTERESTS

- Personal fitness and its connection to leadership, self-development, translating innovative science from bench to patients.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Enthusiastic and highly motivated team player committed to establishing healthy and effective working relationships
• Focused, organized, and well-versed in managing deliverables in a fast-paced work environment
• Strong technical background in research and creative problem-solving, with experience working full time in the biotechnology sector
• Excellent verbal and written communicator, having hosted and presented at research symposiums and published peer-reviewed papers
• Passion for fostering learning and understanding, through tutoring roles and international internships translating project goals across language, cultural, and experience barriers

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023; Class Representative
• Honours Bachelor of Science with Distinction, Microbiology and Immunology, University of British Columbia, Class of 2020, Science Scholar and Dean’s List

EXPERIENCE AND QUALIFICATIONS

• Product Development Assistant, Response Biomedical Corporation – Assistant for the development and manufacturing of disease diagnostics. Participated in systematic investigations supporting product development, feasibility, and validation
• Undergraduate Honours Thesis, University of British Columbia (UBC) – Independent guided research on Coxsackie B virus induced type 1 diabetes in live mouse models
• Biomedical Engineering Research Intern, Shanghai Jiao Tong University – Performed projects in cancer therapy and diabetes in collaboration with international researchers
• Marketing Executive, UBC Microbiology & Immunology Students Association – Organized social, mentorship, and networking events for students. Designed and managed association advertising campaigns and merchandising
• Co-Chair, UBC Undergraduate Research Symposium Planning Committee – Orchestrated and hosted student research symposium, managed committee tasks, and facilitated communication between teams and sponsors

PERSONAL INTERESTS

• Infectious disease and virology, music, dance, graphic design, trying new foods, puzzle solving and mystery games, Dungeons & Dragons, creative storytelling
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Excellent time management and organizational skills demonstrated through balancing extracurriculars, research and part-time work while maintaining academic excellence in undergraduate studies.
- Exceptionally self-motivated individual who is eager to take on challenges, support teammates, and continuously strives for excellence.
- Highly effective communication skills developed through years of teaching dance and group fitness to people of various ages and skill levels.
- Recipient of the Faculty of Science Students' Association highly competitive Research Assistant Scholarship, Wilfrid Laurier University, 2021.
- Dean's Honour List, Wilfrid Laurier University, 2017-2021.
- Health Sciences Academic Award of Excellence, 2021.

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023; IMI Graduate Student Committee Class Rep
- Honours Bachelor of Science with High Distinction in Health Sciences, Minors in Biology and Chemistry, Wilfrid Laurier University, Class of 2021

EXPERIENCE AND QUALIFICATIONS

- Independent Undergraduate Honours Thesis, Wilfrid Laurier University - Investigated the relationship between prenatal use of THC and changes to brain development in Wistar rats.
- Undergraduate Research Assistant, Wilfrid Laurier University - Implemented and improved standard operating procedures for a pilot study investigating the health effects of vaporized cannabis.
- Executive Vice President of the Laurier Biotechnology Organization - Managed a team of executives to establish a new club. Supervised recruitment, social media marketing and event planning initiatives.
- Director of Finance for the Faculty of Science Students’ Association - Approved budget proposals, submitted reimbursements and enhanced the student experience in a remote learning environment.
- Student Educator for the Anatomy Outreach Initiative - Educated high school students on the clinical applications of anatomy using synthetic cadavers to foster interest in pursuing STEM fields.

PERSONAL INTERESTS

- Dance, reading, sewing, camping, and personal fitness.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Diligent and passionate individual who is constantly seeking improvement and new challenges
• Exceptional collaboration and leadership skills refined through several extracurricular executive and committee positions
• Highly adaptable under pressure and able to pivot priorities in fast-paced environments
• Excellent oral and written communication skills developed by presenting research findings at lab meetings as well as through a written thesis
• Proven problem-solving and project-management skills cultivated through honours thesis project resulting in co-authorship (Frontiers in Chemistry - doi: 10.3389/fchem.2021.747236)

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Bachelor of Medical Sciences with Distinction, Honours Specialization Biochemistry of Infection and Immunity, Western University, Class of 2021
• Recipient of Western University’s Continuing Admission Scholarship ($10,000) for academic excellence
• Western University Faculty of Science, Dean’s Honour List (2017-2021)

EXPERIENCE AND QUALIFICATIONS

• Honours Thesis Project, O’Donoghue Lab, Western University – Investigated the role of acetylation in regulating redox systems during intracellular oxidative stress.
• Vice President Events, Western University Biochemistry Club – Adapted club structure to facilitate virtual events and strengthen student-faculty relations
• Vice President Communications, Western University Ukrainian Students Association – Organized heritage events thereby expanding relationships within the Ukrainian community in London, Ontario
• Biochemistry Student Ambassador, Western University – Inspired prospective students by highlighting careers and academics within Biochemistry
• Volunteer Coach, ErinoakKids Centre for Treatment and Development – Supported Recreation Therapy staff in running a summer soccer program for children with physical and/or developmental disabilities

PERSONAL INTERESTS

• Houseplants, mindfulness, street photography, and personal fitness
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Innovative, driven, and creative as demonstrated by adding value to companies outside of job description to the tune of millions of dollars in savings every year.
- Motivated and dedicated to excellence as shown through my three manuscript publications in vaccine manufacturing and production line optimization (1, 2, and 3).
- Dynamic communication skills and poise that were exercised while presenting a proposal to the Site Head, Marketing Director, and deputy directors of Sanofi Pasteur.
- Awarded the $60,000 Schulich Leader Scholarship, 2021 Libro Credit Union Commitment to Community Scholarship, and the 2021 Agnes M. Ireland Award for academic merit.
- Excels in leadership positions demonstrated by leading more than 7 teams to reach and exceed all their performance, outreach, and member retention objectives.
- Rich life and job experience translating to effective interpersonal and problem-solving skills.

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Bachelor of Science Honours with Distinction in Biotechnology, Professional Internship Designation, Queen’s University, Class of 2021; Dean’s Honours

EXPERIENCE AND QUALIFICATIONS

- Sanofi Pasteur Analytical Process Support and PAT Co-op Student – Spearheaded the design and development of a successful downstream in-line process analytical technology for vaccine component monitoring. This work was described as a site innovation highlight for its potential to save the company hundreds of millions of dollars upon implementation.
- Business Brigade Consultant in Panama – Led 8 students to increase an entrepreneur’s productivity and profitability. Created a marketing portfolio, found thousands of dollars in cost savings, and generated a business model canvas for the client’s business.
- A+ in The Business of Science Course – Exercised abilities of inventing biotechnologies, patenting, commercialization, market analysis, and entrepreneurship in a course meant to mimic the world of industrial biotechnology.
- Kingston Medical Makers Founder – Coordinated 15 students in the design of 3D-printable medical tools including a stethoscope that can be delivered via drone to remote places.

PERSONAL INTERESTS

- Marketing, graphic design, entrepreneurship, and personal finance.
- Frequently travels and hikes and/or kayaks in every country visited.
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Experienced communicator of novel scientific information orally and in writing, presenter in many professional seminars (Experimental Biology Conference, London Health Research Day, Environment and Climate Change Canada, Western University)
- Efficient learner capable of consistently delivering high quality, well-organized work independently or as part of a team
- 4-year ($10,000) scholarship to Western University, 4-year member of the Western Scholars Program and Dean’s Honor List
- Professional experience in biochemistry, molecular biology, laboratory quality assurance, internal auditing, and scientific writing

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Bachelor of Medical Sciences, Honors Specialization in Biochemistry and Cancer Biology, University of Western Ontario (Class of 2021)

EXPERIENCE AND QUALIFICATIONS

- Undergraduate Honors Thesis – independently investigated the effects of Angiotensin II treatment on BRCA2-silenced human endothelial cells (RNA/protein purification & quantification, cell culturing, functional assays, microscopy, immunofluorescence)
- Presented thesis results through oral and poster presentations at Western University, Experimental Biology Conference, and London Health Research Day
- Worked with the Clinical Cancer Research Unit team in the London Health Sciences Centre to develop a more informative and intuitive patient-facing clinical trials website
- 1 year internship at Environment and Climate Change Canada – designed, conducted, and presented an individual research experiment studying the efficacy of mercury sample preservative in various storage media, conducted internal audits related to laboratory sample preparation protocols, reviewed and improved SOPs for production of reference materials and proficiency testing items
- Good Clinical Practices (GCP) Certification for clinical trials in Canada
- Volunteered for Western’s Student Scholars Association, organized events and developed resources to help and engage young undergraduates in the Scholars community

PERSONAL INTERESTS

- Basketball, computer building, jazz and blues music, scientific communication, cancer biology and genetics, translational science, 1st degree black belt in Taekwondo
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Applied innovative problem-solving skills and strong critical thinking to troubleshoot complications involving gene expression and protein folding which unexpectedly halted research progression
• Demonstrated empathy, active listening, and clear communication abilities when mentoring students from marginalized communities pursuing new academic endeavors and challenges
• Led efforts to organize Ryerson University’s first week-long research exploration opportunity for 12 high school students from underrepresented communities in STEM to promote scientific education
• Employed strong collaboration and project management skills to raise over $10,000 during a multi-year fundraising initiative, ultimately supporting the replacement of ageing hospital equipment

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023; Joseph Bazylewicz Fellowship (2021)
• Honours Bachelor of Science with Distinction, Biomedical Sciences, Ryerson University, Class of 2021; Dean’s Honour List (2018 – 2021), W.H. Bouck & J.D. Hague Award (2021)

EXPERIENCE AND QUALIFICATIONS

• Honours Undergraduate Thesis, Little Lab, Ryerson University – Studied the largely unexplored effects of tyrosine phosphorylation on secretion dynamics of toxins produced by pathogenic E. coli
• Research Assistant, Botelho Lab, Ryerson University – Supported the work of a postdoctoral fellow on the importance of genes that control phospholipid specificity towards several cellular mechanisms
• Co-President, STEM Fellowship Ryerson Branch – Developed community by organizing academic events including research seminar nights, coding workshops, and a research exploration opportunity
• Mentorship Coordinator and Peer Mentor, STEM Fellowship – Served as a first point of contact for over 30 mentor-mentee pairings across Canada and the US to facilitate discussions; provided guidance and support to students interested in STEM
• Emergency Department Volunteer, Trillium Health Partners – Supported staff and patients, accommodating requests and proactively conveying concerns to provide the best possible patient care experience

PERSONAL INTERESTS

• Participating in individual and team sports, geography and travelling, community outreach and mentorship, reading, personal finance
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Strong scientific rapport, excelled at delivering a number of graduate seminars to faculty, all scored 90% or above
• Able to research, interpret complex scientific information, and summarize into a written documents
• Project management and communication skill evidenced by teaching experience, working on multiple scientific projects simultaneously
• Critical thinking and problem-solving skills evidenced by laboratory experiment troubleshooting
• Best Graduate Poster Award at Infection and Immunity Research Forum 2017
• Research presented at Neurotrauma 2018 international conference, abstract published
• Strong quantitative skills (Excel Finance and Accounting / Business Management workshops, intro finance / accounting / management courses) coupled with solid scientific expertise
• 4 manuscripts in preparation, 1 submitted DOI: 10.21203/rs.3.rs-39873/v1, 6 poster abstracts

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Bachelor of Commerce (BComm-1 year) Accounting and Finance stream, Ryerson University, 2021
• Master of Science (MSc), Microbiology and Immunology, Western University, Class of 2018
• Bachelor of Medical Science (BMSc), Honors Specialization in Microbiology and Immunology, Western University, Class of 2017

EXPERIENCE AND QUALIFICATIONS

• Research Technician, Gene Therapy, Sunnybrook Research Institute: Gene therapy pre-clinical research focused on imprinted gene network knockout using siRNA lentiviral and adeno-alike vectors, ALS AAV-based animal model and behavior study, oligodendrogliaoma stemcell-based cerebral organoid models
• Team Coordinator, CareParteners: Coordination of community nurses, as well as intake of new patients in Mississauga, Bolton, Brampton and Caledon
• Traumatic brain injury (TBI) research, Robarts Research Institute: Honors project and graduate research on immunological response to neurotrauma, specifically creating an excitotoxic TBI model to mimic innate cellular response we see in TBI patients
• Experience with B2B distribution: Worked with Cortez Diagnostics in distributing Rapid-Test kits to laboratories in Canada and Europe

PERSONAL INTERESTS

• Volleyball, e-Sports, electric longboarding, snowboarding, kayaking, enthusiast-level PC building

Where science meets business.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly motivated individual that seeks opportunities for continuous self-improvement
• Excellent leadership and teamwork skills honed through MBiotech and UTM Library where my team was awarded for having the most attendance at our events
• Possesses excellent literature review, written, and oral communication skills developed through Undergraduate Thesis work at Lange and Orchard Lab
• Developed strong interpersonal skills through interacting with diverse clients at UTM Library and Greeniche where I surpassed daily sales goal by more than 250%
• Able to prioritize and adapt in high-pressure environment evidenced through attaining a 3.95/4.0 sessional GPA with course overload in Summer 2020 while working on two research projects

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honors Bachelor of Science [High Distinction]; Major in Biology for Health Sciences and Double-Minor in Chemistry and Business, Science and Entrepreneurship, University of Toronto, Class of 2021, Dean’s List Scholar (2018 – 2021)

EXPERIENCE AND QUALIFICATIONS

• Undergraduate Thesis at Lange and Orchard Lab – Studied the reproductive role of serotonin in *Rhodnius prolixus*, a vector of Chagas disease. Analyzed tissue to identify and quantify serotonin receptors and conducted egg laying assays under various conditions to ascertain serotonin’s role.
• UTM Library Ambassador – Liaised with students for useful library services through outreach activities, library tours, and hosting weekly de-stress events. Awarded Chief Librarian Award for going above and beyond the required service.
• Sales Associate at Greeniche Natural Health – Promoted company brand to diverse clientele and counseled them in finding products according to their needs. Also conducted market analysis about customer preference and feedback to develop new products.
• Center for Education and Training Program Assistant – Led a group of youths to plan and host a Volunteer Fair by delegating tasks among them. Recruited guest speakers, and created a floor plan and schedule.

PERSONAL INTERESTS

• Reading, hydroponics, gardening, cooking, hiking
Ishani Ranjan

SUMMARY OF SKILLS AND ACHIEVEMENTS
• Committed to combining strong life sciences academic background with aptitude for administrative roles in team-based environments.
• Focused individual capable of managing multiple projects while pursuing and delivering high quality results.
• Experience in writing and editing scientific reports and manuscripts, with proficiency in disseminating scientific information appropriately for the understanding of a non-scientific audience.
• Well-versed in desk-based research and creating and executing presentations for the dissemination of knowledge or experimental results.
• Enhanced leadership and team management skills honed by being co-president of a college theatrical society.
• Experience in handling communication between teams and carrying out negotiations and flexible problem solving in the event of setbacks.
• Language proficiency – English and Hindi (native), Japanese and Korean (intermediate), French (basic)

EDUCATION
• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science with High Distinction, double major in Molecular Genetics & Microbiology and Health & Disease, University of Toronto, Class of 2019; Dean’s List Scholar (2015-2019)
• Human Biology Excellence Award (2019), University of Toronto Scholar (2017)

EXPERIENCE AND QUALIFICATIONS
• Research Volunteer, The Hospital for Sick Children (SickKids) – Assisted Post-Doctoral Fellow with work in gastrointestinal stem cell research and carried out various wet-lab procedures.
• Trinity College Dramatic Society (TCDS) – Organized theatrical productions and various events for the TCDS. Supervised projects and budgets, and facilitated negotiation between multiple teams.
• Margaret MacMillan Trinity One Scholarship Recipient – Awarded for the highest academic achievement in the Trinity One program Biomedical Health stream, in which students prepare grant proposals and research manuscripts in a simulation of the research publication process.
• Akshaya Patra Intern – Assisted organization in garnering support based on the Corporate Social Responsibility (CSR) initiative.
• Volunteer Teacher, ‘Teach India’ School Chapter – Taught spoken English to high school support staff.

PERSONAL INTERESTS
• Languages, travelling, theatre, puzzles, and teaching myself new skills
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Ambitious and passionate individual that continuously seeks personal growth and development
- Excellent interpersonal skills, with ability to build strong relationships and work efficiently with a team under stressful conditions, developed through various team projects and work in service industry
- Strong presentation skills and the ability to competently take on leadership roles with a positive attitude, cultivated through outreach work for mental health clinic
- Proficient in scientific research and writing established from critical thinking and scientific communication courses throughout undergraduate degree
- Strong work ethic and time management, proven through meeting strict deadlines in various job placements while maintaining high quality

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Honours Bachelor of Science with Distinction, Major in Biomedical Science, University of Guelph, Class of 2020

EXPERIENCE AND QUALIFICATIONS

- Volunteer Biotechnician, West Park Healthcare - Created and helped design sleep sensors via 3D printing for use in the hospital, allowing the department to save money with a cheaper, more ergonomic design
- Host, Amsterdam Barrelhouse - Planned reservations and greeted and directed customers to assigned tables in a fast-paced environment, gaining the ability to proficiently balance efficient service and customer care.
- Advertising, Straight Up Mental Health Clinic - Visited schools and tutor services to raise awareness for newly opened clinic in Toronto, successfully meeting short deadlines while scheduling my own hours
- Computer Configuration Technician, Compugen Inc. - Successfully took on and completed several independent configuration projects under time restraints, going above and beyond what was expected in my role

PERSONAL INTERESTS

- Languages, travelling, cooking, chess, and guitar
- Outdoor activities like cycling, hiking, and intramural sports
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Ambitious and highly self-motivated individual that is seeking new challenges and learning opportunities in the biopharmaceutical field.
• Proven communication and interpersonal skills through 6 years of leadership, teamwork and mentorship experience in student and community organizations.
• Hardworking and committed to excellence. Seen by the successful completion of an undergraduate thesis project, maintaining Dean’s List, and graduating with High Distinction while managing extracurricular responsibilities and employment.
• Dedicated to making a positive impact in every setting. Evidenced by organizing initiatives in the Macedonian community of Toronto and St. Clement Macedonian Orthodox Church raising $5000+ for local charities over the past 6 years.

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023

EXPERIENCE AND QUALIFICATIONS

• Undergraduate Thesis Project, Hamel Laboratory, UofT. Utilized yeast two hybrid screening to investigate proteins that interact with Patched cytoplasmic domains and their relationship to disease.
• Account Assistant at HUB International Insurance Brokerage. Exercised analytical and communication skills to process large volumes of client data and generate audit reports for the Operations team.
• General Office Assistant at the Ontario Government. Supported essential government mail services during the COVID–19 pandemic and managed the shipping of diplomas to over 920 Ontario secondary schools.
• Volunteer in the Multi-Organ Transplant Unit and Head and Neck Clinic of Toronto General Hospital. Assisted staff with administrative tasks and interacted with patients/families in a friendly manner.
• Founder and current Vice President of the Macedonian Youth Network and former Vice President of the Association of Macedonian Students at UofT. Lead the planning of community and student events, and communicated with external organizations for funding and collaboration opportunities.

PERSONAL INTERESTS

• Playing the accordion, writing, event planning, community involvement and trying new things.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Exceptional public speaking and scientific communication – developed by defending a thesis, speaking at seminar series, and refined with public speaking workshops
• Effective leadership and teamwork skills – gained by experience as an elected member to leadership committees, through event planning, and completing non-credit leadership courses
• Strong analytical skills – developed in industry by analyzing and reporting scientific data, as well as funded experience in two research labs, and carrying out a thesis
• Adaptable and Resilient – attained by organizing events and working through unexpected challenges, working in fast paced environments, and planning in team environments
• Funding & Awards – Ontario Graduate Scholarship (OGS) (2021), NSERC USRA (2020), Brock University Faculty Award (2020), President’s Surgite Award (2019), Match of Minds (2018), Brock Leaders Citizenship Society (BLCS) (2016-2020)

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science with Co-op, Biotechnology, Brock University, Class of 2021

EXPERIENCE AND QUALIFICATIONS

• Honours Thesis, Brock University – worked to isolate PI4KIIIβ and prepare the protein for an assay to aid in drug discovery, supervised by Dr. Jeffrey Atkinson
• Dr. Feng Li’s lab (Match of Minds & Volunteer) – part of a team developing a point of care assay aimed at detecting DNA point mutations to decrease diagnosis times
• Dr. Jeffrey Atkinson’s lab (NSERC) – developed a database of Sec14 protein ligands to predict Sec14-like protein ligands based on structure and sequence alignments
• Lab Technician, Environment and Climate Change Canada (ECCC) – purified carcinogenic molecules, analyzed GC-MS data, supported R&D with literature searches, performed QA/QC tests, logged data in the National Laboratory Information Management System (NLIMS), and was an elected executive member of the National Youth Network of ECCC
• Seminar Series Chair – overlooked planning and execution of seminar series at ECCC
• Foundations in Leadership – completed professional courses as a BLCS executive for interpersonal communication, problem solving/conflict management, and leadership styles

PERSONAL INTERESTS

• Personalized medicine and bringing scientific advancements beyond the lab
• Badminton, cycling, travelling, volunteering, and quality time with friends and family
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Determined and goal-oriented individual with the ability to work both independently and in a team-based settings, exemplified through pursuing the Master of Biotechnology program
- Excellent problem-solving strategies acquired through professional and educational experiences
- Proficient written and oral communication skills cultivated through undergraduate and graduate research assignments, presentations, and volunteer experiences
- Exceptional at multitasking and learning new task quickly through ample experience working in fast-paced environments
- Exemplary time management and organizational skills demonstrated by successfully balancing academics with part-time employment

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Honours Bachelor of Science with High Distinction, double major in Immunology and Biomedical Toxicology, minor in Physiology, University of Toronto, Class of 2021 – Dean’s Honours List (2017-2021)

EXPERIENCE AND QUALIFICATIONS

- Immunology Research Assistant, Sunnybrook Health Institute – collaborated on a project aimed at developing monoclonal antibodies against the mouse CD7 T cell surface marker.
- Receptionist, Woodchester Nissan – Greeted incoming clients, provided over-the-phone customer support, managed incoming cash flow, updated daily inventory.
- Keyholder, Chico’s FAS – Managed the opening and closing of the boutique, delegated tasks to sales associates, oversaw nightly deposits, ensured the boutique met company standards, provided clients with exceptional customer service.
- Guest Relations Representative, Ricoh Canada – Set-up interviews for new job openings, prepared badges for new employees, ordered and organized lunches for client meetings, replenished inventory in stock rooms and sorted mail.
- Volunteer Notetaker, University of Toronto – annotated class lectures and submitted them onto a portal for accessibility services.

PERSONAL INTERESTS

- Cooking, baking, reading, painting, travelling
SUMMARY OF SKILLS AND ACHIEVEMENTS
• Excellent oral and written communication skills developed through presenting scientific research at several symposiums and writing grant proposals and academic papers
• Committed team player who thrives working with diverse personnel in fast-paced work environments
• Dedicated to leadership – shown through mentoring undergraduates and training new students in various laboratory and bioinformatics techniques
• Effective time and project management skills demonstrated through balancing undergraduate studies, independent research projects and part-time managerial job while meeting deadlines and deliverables
• Highly motivated individual committed to life-long learning and exceeding expectations both professionally and academically

EDUCATION
• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science with Distinction, Cell and Systems Biology specialization, University of Toronto, Class of 2021

EXPERIENCE AND QUALIFICATIONS
• Undergraduate Honours Thesis Student, Nambara Lab – Characterized hormonal/physical signals that induce nuclear localization of two transcription factors during plant development
• Collaborated and Co-authored a Bioinformatics project characterizing gene duplication/loss events in Gibberellins (GA) metabolism enzymes in Brassica Napus
• Research Assistant – Assisted in wet lab experiments (DNA extraction and CRISPR construct formation) and collection of publishable data (quantifying seed imbibition and germination)
• Assistant Manager at PetValu – Performed weekly inventory reviews and ordering, reconciled return receipts, managed weekly schedules and trained new employees
• Undergraduate Mentor – trained incoming lab students in laboratory techniques and mentored 1st year students in finding research opportunities

PERSONAL INTERESTS
• Basketball
• Podcasts, personal finance, DIY projects
• Science Communication and learning about new investment strategies
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Self driven and resilient individual, eager to challenge oneself while leveraging a positive attitude to create an inviting work environment and motivate others
• Exhibited consistent self-regulation, innovative thinking and problem-solving skills throughout the completion of various case-based and laboratory courses
• Highly collaborative and cross functional team player with outstanding interpersonal and public speaking skills cultivated through interaction with diverse populations
• Open minded with a strong sense of self-awareness, commended for embracing constructive criticism to aim to for the highest standard of excellence
• Demonstrated exceptional adaptability, time management and organization skills, through successfully balancing a full course load alongside a part-time job during evolving circumstances
• Commended for leadership and work ethic in academic, corporate and clinical operations

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Medical Science, Specialization in Interdisciplinary Medical Sciences, Western University, Class of 2021; Dean’s Honour list (2017-2021)

EXPERIENCE AND QUALIFICATIONS

• Cardiology Research Assistant at Sunnybrook Health Sciences Center – Coordinated research studies while shadowing a variety of surgeries
• Clinical Assistant at Wilderman Medical Clinic – Carried out pre-appointment protocol including measuring vital signs and providing patients with maximal care and comfort
• Swimming With A Mission (SWAM) Instructor – Designed engaging lesson plans to teach children with disabilities essential swimming skills and develop their communication skills
• Administrative associate at Canadian Vein Clinic – Created and organized patient files to efficiently inputted medical data into an online patient database and maintained an orderly clinical environment
• Cancer Awareness Society Events Chairs at University of Western Ontario – Worked closely with fellow executive members in arranging and advertising fundraising events to achieve optimal engagement
• Pharmaceutical Intern at Disera Pharmacy – Processed and sorted prescription while monitoring and handling stock of pharmaceutical supplies and drug inventory

PERSONAL INTERESTS

• Baking, Travelling, Learning new languages, Painting, Outdoor activities
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly motivated individual with a passion for self-growth, science, and helping others
• Excellent interpersonal and communication skills, developed through working within teams in the workplace, laboratory, and athletics
• Outstanding presenting capability, cultivated through numerous presentations to faculty, industry members, and peers
• Strong conflict resolution skills, developed by working in a high-paced hospital environment and as the captain of a competitive soccer team
• Effective critical analysis and troubleshooting skills, shown through troubleshooting scientific experiments during my thesis as a member of the Surette laboratory

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Recipient of the Amgen Canada Fellowship in Biotechnology Scholarship (2021)
• Honours Bachelor of Health Science, Biomedical Discovery & Commercialization, McMaster University, Class of 2021
• Dean’s Honour list, McMaster University, 2017-2021

EXPERIENCE AND QUALIFICATIONS

• Undergraduate Thesis Student- Surette Laboratory, McMaster University – Wrote a literature review on the role of glycans in SARS-CoV-2 infectivity. Created a novel assay to test for variation in the glycosylation profile of human ACE2 to potentially be used as a diagnostic for SARS-CoV-2
• Student Innovator, Fero International Inc. – Developed a commercialization plan, conducted market analysis, and pitched Fero’s plan for disrupting the modular and field hospital market to investors
• COVID-19 Health Screener, Altamont Care Community – Reduced the risk of infection by screening healthcare workers, conducting rapid COVID-19 tests, sterilizing equipment, and educating individuals on proper PPE use and social distancing guidelines
• Gym Attendant, Whyte Fitness – Organized training schedules, maintained equipment, and trained guests on safe machine operation. Advocated and empowered members to maintain a healthy lifestyle by suggesting recipes and workout routines
• Child Life Volunteer, SickKids Hospital, Neurology, Trauma & Epilepsy Monitoring Unit – Supported pediatric patients through recreational activities to lessen the anxiety associated with hospitalization

PERSONAL INTERESTS

• Soccer, travelling, volunteering, personal fitness
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Personable, resilient, and goal-oriented individual who’s passionate for pharmacology and medical biotechnology.
• Strong project management skills acquired through experiment design and execution as a Research Opportunity Program Student studying young adult knowledge on contraception methods.
• Exceptional oral communication and team working skills built through team-based research, student club administration and customer service experience.
• Strong ability to adapt and excel at newly set challenges and environments.
• Excellent reading, writing and presentation skills honed through scientific journal analysis, scientific journal writing, and delivery of presentations in an academic setting as a Research Assistant.

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023; Class Representative
• Honours Bachelor of Science with High Distinction, Biotechnology Specialist and Chemistry Minor, University of Toronto, Class of 2021- Dean’s List Scholar

EXPERIENCE AND QUALIFICATIONS

• Research Assistant, Department of Microbiology, University of Nicolaus Copernicus- Studied the effect of salinity on the nitrogen fixation by endophytic bacteria: Pseudomonas stutzeri and Azospirillum brasilense. Assisted in wet laboratory experiments as well as data gathering and final editing of the publication. Publication as a co-author pending.
• Research Opportunity Program Student, Department of Biology, University of Toronto- Investigated young adults’ knowledge about contraception. Collaborated in a team to design and analyze the study. Delivered biweekly reports to supervisor regarding project progress.
• Sales and DOM Associate, Sportchek- Provided exceptional customer service and product knowledge. Communicated and collaborated with coworkers in a fast-paced environment.
• Facilitated Study Group Leader, University of Toronto- Organized and supervised weekly discipline-related study sessions. Helped students develop critical thinking and problem-solving skills.
• Administrative Team Member, Moscati Medical Club- Managed online events for club members, provided monthly progress reports.

PERSONAL INTERESTS

• Learning languages, traveling, singing and gardening.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Expert at maximizing sales and customer satisfaction in the restaurant industry.
• Experienced in using service marketing and business analysis approaches to conduct research.
• Effective at employing facilitative learning techniques to help students develop critical thinking skills, independence, and resilience.

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science with High Distinction, Molecular Biology Specialization and Chemistry Minor, Class of 2021, Dean’s List Scholar.

EXPERIENCE AND QUALIFICATIONS

• Waitress, Restaurant Salesperson and Staff Trainer (2015–Present) – Balance full-time University studies with part-time work at a high-end restaurant. Utilize exceptional multi-tasking, teamwork, and communication skills to regularly achieve more than 1.5x the daily sales targets, routinely exceed average sales by more than 50%, and frequently set records in daily sales achievements. Expertly navigate a fast-paced, high-stress, professional environment. Train new staff in best practices, effective sales techniques, and customer relationship management.
• Teaching Assistant, Introductory Genetics & Molecular Biology, Biology Department, University of Toronto Mississauga (2019–present) – Encourage students to use critical thinking when solving challenging application-style questions. Use instructional scaffolding and guiding questions to help students actively and independently work toward solving problems with resilience instead of learned helplessness.
• Undergraduate Research Assistant, Biology Department, University of Toronto Mississauga (2019) – Led an interdisciplinary research project to investigate factors that affect student satisfaction, engagement, and success in undergraduate Biology courses. Determined that a positive perception of course design and delivery was not significantly correlated to student success or acquisition of higher-order learning skills. Converted research findings to actionable information (using service marketing and business analysis approaches), which informed the Biology Department about best practices for optimizing student success and educational experiences.

PERSONAL INTERESTS

• Oncology, Cosmetic Science, Scientific Literacy, Exercise, Travel, Calligraphy, Cooking, Cats.
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Determined leader who takes on challenges and strives for excellence.
- Native/bilingual proficiency in English and French. Professional proficiency in Croatian.
- Awarded Dean’s Honour List at McMaster University (2017-2021). Achieved a 3.99/4.0 GPA in final year of undergraduate studies while balancing extracurricular activities and part-time employment.
- Displayed strong work ethic and initiative in research roles resulting in co-authorship on 3 scientific abstracts.
- Outstanding oral communication skills honed through academic and conference presentations.
- Completed a 4-month student exchange program in Belgium in 2015, contributing to fluency in French.

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Honours Bachelor of Science in Kinesiology, McMaster University, Class of 2021

EXPERIENCE AND QUALIFICATIONS

- Thesis Student, Integrative Neuromuscular Biology Laboratory, McMaster University – Conducted an independent thesis project investigating mitochondrial adaptations in mice lacking CARM1: a potential therapeutic target for cancers and rare neuromuscular disorders.
- Research Assistant, Credit Valley Rheumatology Group, Canadian Rheumatology Association – Investigated immunization coverage and gap-time between prescription and start date among patients with rheumatoid arthritis treated with JAK-inhibitors and biologic drugs.
- Receptionist, Revera Inc. – Effectively communicated with pharmacists, doctors, and nurses to ensure the well-being of over 50 retirement home residents. Multitasked various administrative duties, greeted newcomers at reception, and supervised residents with cognitive and physical impairments.
- Office Administrator, Prime Quadrant Corp. – Demonstrated creativity, initiative, and attention to detail by designing promotional/fundraising events including a client open house. Displayed robust management skills by coordinating all client meetings and overseeing over 40 employee calendars resulting in improved workplace organization.
- Volunteer Strength and Conditioning Coach, McMaster Marauders – Emphasized collaboration and leadership while coaching and supervising varsity athletes.

PERSONAL INTERESTS

- Playing violin, painting, baking, skiing, running, and yoga.
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Strong background, knowledge, and understanding of advanced concepts in immunology, biochemistry, mathematics, and chemistry.
• Exceptional oral and written communication skills developed through an undergraduate thesis with McMaster University’s Department of Chemical Engineering, and research in the Immune Regulation Research Unit at the Institute of Clinical Research of Montréal.
• Foundation in educational leadership developed as a teaching assistant for McMaster University biology courses and as a wet-lab instructor with the Canadian Synthetic Biology Education Research Group (CSBERG).
• Proficient in data analysis and computer programming, with numerous side projects developed to analyze financial data, qualitative questionnaire results, and in silico protein analysis. Data analysis was conducted with Pandas dataframes in Python, or in Microsoft Excel.

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science, Biochemistry Co-op, Chemistry Minor, McMaster University, Class of 2021, Dean’s List
• Concurrent Certificate of Immunology, Microbiology, and Virology, McMaster University (Received 2021)

EXPERIENCE AND QUALIFICATIONS

• Worked as a laboratory technician with Sanofi Pasteur during the COVID-19 pandemic, collaborating with numerous departments to analyze protein samples in the Upstream R&D platform to ensure product quality, purity and protein viability.
• Developed advanced skills in applied molecular biology and immunology as a Research Assistant at the Clinical Research Institute of Montréal. The research projects resulted in a seminar presentation and the development of scientific reports currently being reviewed for publication.
• Conducted in silico analysis to elucidate a theoretical mechanism of action for the ABCG5/G8 membrane protein.
• Explored the potential drug delivery capabilities of surface-charged Poly-NIPAM microgels for the targeted delivery of chemotherapeutics. Manufacturing/production limitations and potential upscale yields were also explored.

PERSONAL INTERESTS

• Fencing, nature and wildlife, cooking, reading, and Economics
SUMMARY OF SKILLS AND ACHIEVEMENTS
- Dedicated, tenacious individual with an inquisitive mind-set that strives to gain knowledge whenever possible
- Developed excellent written and verbal communication skills, technical skills, and interpersonal skills through extensive teamwork during education and in professional settings
- Managed time and organized work to meet deadlines and balance a final year undergraduate Capstone Research Project along with a heavy course load and Teaching Assistant duties
- Results-orientated and versatile individual as indicated by a variety of roles in industry at Suncor Energy and Canadian Nuclear Laboratories

EDUCATION
- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Bachelor of Technology, Biotechnology Co-op, McMaster University, Class of 2020

EXPERIENCE AND QUALIFICATIONS
- Capstone Research Project, McMaster University – Worked alongside 3 team members to deliver non-canonical, G-quadruplex DNA structures into cancerous, mammalian cell lines to investigate possible future opportunities of G-quadruplex DNA as a drug delivery vehicle
- Teaching Assistant, Pharmacology, McMaster University – Assisted in grading, providing feedback, and answering queries related to pharmacological topics to an undergraduate lecture and laboratory course of over 40 students
- Environmental Chemical Technologist, Canadian Nuclear Laboratories – Conducted experiments on Alder seeds, developed simple protocols and maintained aquatic cultures for the assessment of long-term radiological effects on environmental integrity
- Research Technologist, Suncor Energy – Investigated effects of proprietary compounds on crop seed growth and presented data to senior researchers while preparing formulations for testing and maintaining an orderly laboratory space

PERSONAL INTERESTS
- Soccer
- Personal Fitness
- Reading
- Economics
SUMMARY OF SKILLS AND ACHIEVEMENTS
• Proven leadership and business acumen, demonstrated by experience in student leadership, sales development, and customer relationship management.
• Strong foundation in research and scientific writing, with over 1.5 years of wet lab experience in chemistry.
• Analytical thinker and problem solver with a passion for collaboration in dynamic team environments and streamlining internal processes.
• Exceptional interpersonal, communication, presentation, customer service skills.
• Well-versed in team management, project coordination, and operations.

EDUCATION
• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Honours Bachelor of Science, Chemical Biology Co-op, Chemistry Minor – McMaster University, Class of 2021, Dean’s List

EXPERIENCE AND QUALIFICATIONS
• Sales Development Representative, Crescendo (10655619 Canada Corp.) – Responsible for managing customer relationships, developing sales and marketing campaigns, conducting client calls, and supporting cross-departmental collaboration. Helped grow revenue from $100k to $1M ARR.
• Thesis Student & Summer Researcher, Adronov Group, McMaster University – Conducted research and presented results on methods for the post-synthetic modification of covalent organic frameworks, receiving the 2020 Senior Thesis Award in Chemical Biology and publishing research in the Journal of the American Chemical Society.
• President, McMaster Undergraduate Society for the Chemical Sciences (MUSCS) – Managed an executive team to coordinate MUSCS affairs, event plans, and projects. Created a new structure for internal communications, increasing team and student engagement in MUSCS initiatives and events.
• Natural Product Research Technician, Adapsyn Bioscience – Worked as part of a tight-knit chemistry team to identify bioactive natural products for potential drug candidates from bacteria cultures. Separated, isolated, and analyzed natural products (HPLC-MS, NMR).
• Vice President Academic, McMaster Undergraduate Society for the Chemical Sciences (MUSCS) – Planned a conference for over 150 students, coordinating with vendors and guest faculty from over 15 Canadian universities.

PERSONAL INTERESTS
• Digital art, crafts, playing music, video games, community service
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Strong health science background with over two years of relative research experience
• Proficient in science communication skills including scientific writing and oral presentations.
• Well-developed interpersonal skills through extensive work experience in the retail industry
• Solid understanding of regulations in the biopharmaceutical industry via completions of various certification programs

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Clinical Research Student, Seneca College, Class of 2021
• Honors Bachelor of Science with Distinction, Major in Human Biology: Health and Diseases, Minor in Immunology and Physiology. University of Toronto, Class of 2018

EXPERIENCE AND QUALIFICATIONS

• Clinical Research Intern at Toronto Western Hospital’s Mood Disorder Pharmacology Unit. Work alongside the clinic staff to gather sufficient scientific evidence to support the importance of neuroimmunology in mood disorders.
• HIV Lab Research Assistant at Department of Immunology, University of Toronto. Participated in a pilot study aiming to assess the feasibility of using live attenuated Varicella Zoster Virus as the vector of HIV vaccine delivery.
• Sales Associate at Canada Computers Newmarket. Working together with the sales team, helped the Newmarket branch to secure the Silver Performance award in the year of 2019 and 2020.
• Internal Auditor at Canada Computers Head Office. Communicated and coordinated with store managers via email to resolve reported inventory discrepancies. Performed daily visit to assigned stores to assure company operation protocols are being followed promptly.

PERSONAL INTERESTS

• Dancing, Motorsport, E-sport, Investments, Automotive
SUMMARY OF SKILLS AND ACHIEVEMENTS

- Clinical research skills developed through a 2-year career as a Clinical Research Coordinator focusing on immunomodulatory therapeutics in dermatology
- Science communication skills exemplified through publication of molecular biology and clinical dermatology articles
- Foundation in educational leadership developed in my role as head TA for undergraduate molecular biology courses at Queen’s University
- Technical molecular biology skills developed through MSc thesis with an emphasis on enzyme engineering, involving structure determination and functional modification

EDUCATION

- Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
- Master of Science, Biochemistry, Queen’s University, 2018
- Jellink-Lyttle Graduate Fellow, 2017 & 2018
- BSc. Biochemistry with Specialization, Queen’s University, Class of 2016

EXPERIENCE AND QUALIFICATIONS

- Productive publication record with 2 co-authored articles on topics in molecular biology, and 2 clinical publications in dermatology and public health, and 2 under present review
- As a Clinical Research Coordinator, focused on patient recruitment and retention, guided informed consent discussions, developed marketing materials, ensured regulatory compliance at the clinic level, and liaised with local GP’s and specialists regarding investigational therapeutics
- Furthered my skills in science communication as a lead TA in undergraduate biochemistry courses, developing lecture materials and practical demonstration of techniques
- Developed advanced skills in applied molecular biology by working on multiple research projects as a Research Assistant with projects ranging from breast cancer cell biology to enzyme engineering resulting in successful undergraduate and graduate thesis defense, and further publication

PERSONAL INTERESTS

- Long distance running – half-marathon personal best – 1:37:44
- Agility training with my border collie, Riley
- Outdoor adventure enthusiast – rock climbing, backcountry hiking, trail running
- Topics in popular science
SUMMARY OF SKILLS AND ACHIEVEMENTS

• Highly self-motivated individual with valuable experience working with a variety of people of ranging abilities and resources. Exceptional communication and collaboration skills as demonstrated through personal care work and extracurricular involvement.
• Excellent leadership, teamwork, and time-management skills enhanced through my career as an International Triathlete (representing team Canada in 2014) and a Varsity Athlete.
• Dynamic public speaker with exceptional ability to work under pressure and adapt to difficult and fast-paced environments, as highlighted by my roles as a Business Consultant, Co-Chair, and Head Lifeguard.
• Proficient in Python and MATLAB as applied to a 4th year undergraduate thesis

EDUCATION

• Master of Biotechnology, Biopharmaceuticals stream, University of Toronto, Class of 2023
• Certificate in Business, Smith School of Business, Class of 2021
• Honours Bachelor of Science, Biotechnology Specialization, Queen’s University, Class of 2020 – Dean’s Honours List | Queen’s University Excellence Scholarship (2016-2017) | OUA Academic All-Star Award (2019-2020 and 2020-2021)

EXPERIENCE AND QUALIFICATIONS

• Undergraduate Honours Thesis Project – Investigated the use of miRNAs as biomarkers in the differentiation between responding and non-responding patients of R-CHOP therapy for Diffuse Large B-Cell Lymphoma through machine learning.
• Global Business Brigade Consultant, Queen’s Chapter – Coordinated meetings with consultants and managers from China, Canada, and Panama to discover financial opportunities for remote and under-sourced entrepreneurs in Panama that saved a farming business thousands of dollars.
• Caregiver for a PhD student with Cerebral Palsy and Quadriplegia – Provided physical and educational support in terms of noteworthy completion of thesis writing and online class.
• Varsity Athlete, Queen’s University Women’s Water Polo – Awarded Most Improved Athlete
• Head Lifeguard – Managed lifeguards and coordinated team meetings for safety and facility regulations as well as task delegation.
• Co-Chair, Queen’s Ladies in Fitness Training – Successfully led a team of executives by creatively organizing and implementing club events and fundraisers while incorporating COVID restrictions.

PERSONAL INTERESTS

• Marketing and design, sports and kinesiology, and community outreach
• Music curation, photography, interior design, fashion & sewing, cooking, and travelling

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