

Henry Stephenson

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EDUCATION

McGill University – Bioengineering, Commerce & Applied AI Minors – 3.98 GPA, Dean's Honor List	2021-27
• McGill University J W McConnell Award and Major Entrance Scholarship	2021
• Faculty of Engineering Scholarships Fund: granted to academically outstanding students in Engineering; only students academically in top 5% of engineering eligible for the award.	2023
• 2023 NSERC USRA Summer Undergraduate Research in Engineering Award	2023
• McGill Engineering Class of 1953 Scholarship: to an "outstanding undergraduate student"	2022
• Brodeur-Drummond Engineering Scholarship: awarded for "contribution to university life".	2023
• Camillia Samson Engineering Scholarship: awarded on the basis of "high academic standing".	2023
• 2022 BRIDGE Sustainability Case Competition Innovation Award	2022
I E Weldon Secondary School – International Baccalaureate Full Diploma Program	2017-21
• IB Final Score: 44/45 (99 th percentile); highest GPA in class of >300 (98.3% final avg.)	2021
• Lieutenant Governor Volunteer Award (provincially designated); IB CAS Award	2021
• Principal's List Award (top ten average in school of >1200 students)	2018, '19, '20, '21

Select Awards & Distinctions

• Valedictorian for the graduating class of 2021; Valedictorian's Award	2021
• SAT: 1540 (780 Math, 760 Reading & Writing), > 99 th percentile	2020
• 1 of 5 provincial recipients of Ontario Minor Hockey & DFO Bursary Award	2021
• Completion of Canadian Securities Course (CSC): <u>accredited Canadian Investment Advisor</u>	2023
• U Waterloo Fermat Math Contest Certificate of Distinction; Math Contest School Champion	2019

WORK EXPERIENCE

Assay Engineering and R&D Intern – Nomic Bio, Montréal	2023-Now
• Youngest person ever offered a position at the startup. Optimizing the nELISA proteomic platform by: developing novel DNA oligos to maximize Ab fidelity and minimize Ab cross-reactivity; building workflows from scratch to analyze data; coordinating across company divisions to engineer solutions	
• Techniques: flow cytometry, immunoassays, DNA modification & nanotechnology, surface chemistry	
HIV Project Junior Lead, Research Assistant – Mario Ostrowski Lab, University of Toronto	2022
• Major contributor to "Immunogenicity of COVID-19 vaccines and their effect on the HIV reservoir in older people with HIV" paper; published in Cell Press – iScience	
• Elucidated SARS-CoV-2 vaccine safety for over 39 million people globally with HIV, providing scientific assurance that vaccination is not harmful; trained & led team of 5 undergrads in experiments	
Research Assistant – Natalie Reznikov Lab, McGill University	2023
• SURE project under Prof. Natalie Reznikov: "Synbio approaches for construction of Biobricks"	
• McGill SURE Award for Best Research Presentation with <u>over 100</u> participating SURE researchers	
• Developing therapeutic to save patients with pancreatic cancer. Re-engineering novel CRISPR-Cas system to induce pyroptosis (inflammatory cell death) in cancer cells, leaving healthy cells unharmed	
Research Assistant – Noémie Dorval Lab, McGill University	2023-Now
• <u>2nd author</u> on "Engineered Heat-Inducible Living Textiles", published in ACS Synthetic Biology	
• Developing modular bio-based heat sensor in <i>E. coli</i> for diverse applications: body temperature monitoring, heat-based tunable cancer therapy, bio-encryption, bioreactor thermal modulation, etc.	

EXTRACURRICULAR & LEADERSHIP EXPERIENCE

iGEM, 2023 GRAND PRIZE WINNERS, >400 TEAMS – Team Lead, Finance Director, Advisor	2022-Now
• McGill iGEM: <u>First Canadian team to win 1st place worldwide</u> for our CRISPR-Cas pancreatic cancer therapeutic <i>PROTEUS</i> (<u>provisional patent</u> under review); <u>presented to >5000 attendees</u>	
• Jointly managed team of 30; developed students' wet lab skills, from pipetting up to western blots	
• As the Finance Director, I wrote our Business Plan, a >100-page report on our commercialization strategy post-patenting; also procured <u>> \$150,000 in funding with over 50 grant submissions</u>	

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In Vitro Biotech Conference, Co-Lead Coordinator

2022-23

- Created a first-ever Canada-wide biotechnology conference hosted in Montreal with over 250 registered participants and over \$20,000 in expendable funding.
- Procured funding, garnered interest from all facets of the bioeconomy from VCs to big pharma, and coordinated catering and venue booking to connect Canadian biotech on a national level.
- Speaker and moderator on “The Role of VCs in Facilitating Change in Biotech” panel.

McGill Classical Music Club, VP Events

2022-23

- Organize chamber groups, performance venue bookings, & performances in old-person homes

McGill Biomechanics Club, Mechanical Engineering Team

2021-22

- Played integral role in mechanical design strategy for development of novel magneto-rheological tremor suppressor for Parkinson's disease, using Python and CAD in ideation and design

SKILLS & INTERESTS

Languages: Fluent English, intermediate/advanced French, intermediate German and Chinese (Mandarin)

Skills: accredited investment advisor, programming (Python, C, SQL, Git(Hub)), bioinformatics, lab research

Interests: Synthetic & molecular biology, linguistics, language-learning, piano, soccer, hockey, cross-country

Events Attended: SynBioBeta 2023 (helped organize as a volunteer lead), SynBio Canada 5.0 (attendee)