

EDUCATION

- **McGill University** Montreal, QC
Bachelor of Science in Biochemistry, C.S *Sept. 2015 – April. 2019*
 - **BL21 Research Scholar:** Top 20 Independent Research Scholarship for Most Innovative Research Ideas
 - **T.E.A.M Scholar:** 10 selected as teaching assistants
- **International Culinary Centre** New York, NY
Professional Diploma for the Culinary Arts in French Cuisine *Jan. 2015 – July. 2015*
 - **Maintained Perfect Attendance and Service Awards:**

RESEARCH EXPERIENCE

- **Undergraduate Research Assistant** McGill University, Montreal, QC
Principle Investigator: Dr. Jerome Waldispuhl, Department of C.S *May 2018 - January 2019*
 - **Structural Biochemistry and Bio-informatics Research:** Implemented CNNs to solve multiple sequence alignment problem via utilizing human-computing crowd sourcing platform - Phylo¹
- *Principle Investigator: Dr. Kalle Gehring, Department of Biochemistry* *Sept. 2016 – June. 2018*
 - **Protein and nucleic acid structure analysis:** Conducted in-depth research, compile data and prepare papers for presentation to supervisors. Spearheaded teambuilding efforts like retreats. Supervised an undergraduate.
 - **DENND3 linker project:** Initiated novel project and discovered secondary structure within linker domain of mitochondrial protein involved in autophagy. Obtained and crystallized detailed N15-labelled NMR spectrum of structure
 - **CNNM Transmembrane project:** Resolved full crystal structure of CNNM Transmembrane protein

PROJECTS

- **Deep learning in gene expression inference:** Utilized deep learning to predict gene expression of target genes via landmark genes in the LINCS Consortium Introduced & improved baseline algorithms
- **Addressing building accessibility:** Utilized machine learning on accelerometer data to measure building accessibility. (*Awarded the Highest social good impact & most scalable use of Machine Learning*)
- **Computer visualization & classification task:** Utilized CNNs and deep learning to predict hand-drawn images from GoogleDraw Competition, improved prediction accuracy by 11%.

RELEVANT COURSES

Core Courses

Applied Machine Learning
Software Systems
Computational Biology Research & applications
Algorithms & Data Structures

Other Courses

Probability
Calculus & Linear Algebra
Statistics
Fundamentals of Computing

PROGRAMMING SKILLS

- **Languages:** Python, Java, C, BASH Scripting

¹<https://phylo.cs.mcgill.ca/>; a crowd-computing platform for multiple sequence alignment.

PROFESSIONAL WORK EXPERIENCE

- **Tutor** Montreal, Quebec
Nimbus Tutoring Dec. 2017 - April. 2018
- **Garde-Manger** New York, New York
Perilla May. 2015 - Aug. 2015
- **Line Cook** New York, New York
Aquavit Feb. 2015 - Mar. 2015

LEADERSHIP EXPERIENCE

- **Events Coordinator** Montreal, Quebec
Roots: Youth Mental Health Alliance Sept. 2017- Dec. 2018
 - **Collaboration with local organizations:** secured locations, handled logistics such as line-up for open-mic nights
 - **Organized Events:** Hosted panel discussions and recruited interdisciplinary speakers; Publicized event island-wide
 - **Marketing:** Open-mic events to be featured in Documentary by Green Lion Films, to be released in 2020
- **Sociocultural Events Coordinator** Montreal, Quebec
HANY Sept. 2017 - Dec. 2017
- **Head of Finance** Montreal, Quebec
Branch-Out Mentorship Sept. 2016 - Sept. 2017