NHI NGUYEN

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SUMMARY OF SKILLS AND QUALIFICATIONS

Operating Systems | MacOS • Linux • Window
Applications | VS Code • Affinity Design • MS Office
Programming languages | Julia • Python • Java • R • SQL (beginner) • HTML (beginner)
Languages | English - Fluent • Vietnamese - Native
Lab Techniques | Enzyme assay • Chromatography • Spectroscopy • Gel electrophoresis • Cell culture • PCR • DNA Cloning • Western blot • Immunoprecipitation • Trypsin-digestion (Mass spectrometry)
Research Interests | Bioinformatics • Machine Learning/Artificial Intelligent • Genomics

EDUCATION

Joint PhD - Genomic Medicine **2023 - present**
McGill University, Montreal, QC, Canada
Kyoto University, Kyoto, Japan

Bachelor of Science – Specialization Biochemistry (Co-op), Minor Computer Science **2018 - 2023**
Concordia University, Montreal, QC, Canada
- Dean's list of all academic years for top 10% of the faculty's student
- GPA 3.84/4.30 (equivalent to 3.75/4.0)

High School **2013 - 2016**
Gifted Program, Le Quy Don High School, Da Nang, Vietnam
- Ranked in top 3 students with best performance in Chemistry
- Member of the Competitive Team in the Chemistry National Competition
- Graduate with Great Distinction: GPA 9.3/10

PROJECTS

Internship - Factorized embedding representation for small molecule activities prediction **May, 2022 - August, 2022**
Supervisor: Prof. Sébastien Lemieux, Bioinformatics Research Unit, IRIC, Université de Montréal
- Objective: Implement a machine learning model to predict small molecule activities using factorized embedding being trained on gene expression profile in stead of molecular fingerprint.
- Practical techniques: Julia programming language, data analysis, machine learning

Internship - Identification of SUMO1 substrates by LC-MS/MS **May, 2021 - Dec, 2021**
Supervisor: Prof. Pierre Thibault, Proteomics Platform, IRIC, Université de Montréal
- Objective: Validate in vivo the unique SUMO1 SUMOylation of the prospective proteins, chosen from LC-MS/MS data analysis
- Practical techniques: Gel electrophoresis, DNA Cloning, PCR, Cell culture, Western blot, Immunoprecipitation, Trypsin-digestion of proteins for LC-MS/MS

iGEM Concordia - AstroBio & AstroYeast **May, 2020 - Dec, 2021**
Concordia University, Montreal, QC
- https://2020.igem.org/Team:Concordia-Montreal
- Part of a student-lead team working on a synthetic biology project to compete in the annual International Genetically Engineered Machine Competition. 2020 project - AstroBio: an open-source database for microgravity-induced gene expression. 2021 project - AstroYeast: a microgravity resistant yeast strain.

- Member of Genetics sub-team: did wet lab work and data analysis, recruited new members.
  Other general works: created content for iGEM wiki, contributed to the study of ethics and technology assessment of the project, transcribed interviews, joined iGEM GiantJamboree Conference (virtual).

AWARDS & RECOGNITION

Marcus Lawrence Award, Department of Chemistry and Biochemistry, Concordia University **May 2023**
- For highest achievement in the final year of study in the Co-op programme.

IRIC Next Generation Award, Internship **Aug 2022**
- Also **Best Poster Presentation - IRIC Intern's Day Conference**
- Project: ML model using Factorized Embedding

Gold Medal, iGEM 2020 and 2021 (teamwork) **Nov 2020, Nov 2021**
- Also **Winner of the Best Software Track Award**, be **nominated for the Best Inclusion Award**
- Project: AstroBio & AstroYeast
- Semi-finalists in the Deep Space Food Challenge held by NASA and CSA.

Dean's list, 2018-2019, 2019-2020, 2020-2021, 2021-2022 academic years

Fourth Prize, Chemistry National Competition for High School Student — 2016 **Jan 2016**
- This competition is for choosing members of the Vietnamese's team to compete the International Chemistry Olympiad (iChO) in the 2016 academic year.

OTHER WORK EXPERIENCE

Laboratory Stock Keeper - Organic Chemistry Labs **Jan 2021 - May 2021**
Concordia University, Montreal, QC
- Obtained training certificates: WHMIS 1988 and 2015, Hazardous material, Corrosive substances
- Clean equipments and lab spaces, provide the students with the necessary chemicals and equipments, perform other duties in the lab or storage room.
- Core competencies: familiarity with lab workspace and chemicals, organization and attention to detail.

Vietnamese Language Teacher - Freelance **2016 - 2018**
Da Nang, Vietnam
- Had students with wide range of ages (20-65), nationalities, occupations and levels.
- Prepared lessons for each student with different demands.
- Helped students (all of them are expats) to settle into a new country and experience the city like locals.
- Core competencies: teaching skill, initiative, communication, trustworthiness and ethic

EXTRA-CURRICULAR ACTIVITIES

Member **Jan 2017 - June 2018**
Danang Runner Club, Da Nang, Vietnam
- Attended to scheduled training every week
- Volunteered for two annual international marathons and one IRONMAN Triathlon in the city, volunteered for club's small charity projects.
- Obtained a half-marathon finisher medal - Danang International Marathon 2017

INTERESTS

Sports	Marathons running and triathlon
Passions	Outdoor activities (hiking, snow boarding), manga, anime, food and movies