



# EMILY HASHIMOTO-ROTH, M.SC.

## PH.D. STUDENT

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 em\_hashimoto

 emilyhashimotoroth

## EDUCATION

Ph.D. in Molecular Genetics (Computational Biology track) Sept 2022 – present  
University of Toronto

M.Sc. in Biochemistry specializing in Bioinformatics Sept 2019 – Dec 2021  
Defended December 1<sup>st</sup>, 2021  
University of Ottawa

H.B.Sc. in Biopharmaceutical Science (Genomics option) Sept 2015 – Apr 2019  
University of Ottawa

## EXPERIENCE

**Website Developer** Dec 2024 – present  
Temerty Faculty of Medicine, University of Toronto

- Supervised by Dr. Benjamin Blencowe.
- Design and develop a new website for the Blencowe Lab.
- Maintain and regularly update the website.
- Create digital assets for adding a personalized touch to the website.

**Front-end Developer** Jan 2024 – present  
Faculty of Medicine, University of Ottawa

- Supervised by Dr. Steffany Bennett.
- Create the graphical user interface for bioinformatics tools developed by members of the Neural Regeneration Laboratory.
- Update the Neural Regeneration Lab and CompLiMet (Computational Lipidomics and Metabolomics) websites.

**Teaching Assistant** Nov 2024 – Dec 2024  
Temerty Faculty of Medicine, University of Toronto

- Supervised by Dr. Ji-Young Youn, for the proteins and proteomics unit of the Foundational Genetics graduate course (MMG1001).
- Led tutorial sessions with students, covering computational tools for investigating structural biology and protein folding, intrinsically disordered proteins/regions, protein-protein interactions, and understanding mass spectrometry spectra and results.
- Created a tutorial teaching students how to use the AlphaFold 3 server, understanding the input and output, and visualizing the output in PyMOL.
- Graded and uploaded marks for assignments, presentations, and exams.

**Developer**

Sept 2022 – Dec 2023

Faculty of Medicine, University of Ottawa

- Supervised by Dr. Steffany Bennett.
- Contribute to ongoing bioinformatics projects.
- Maintain and regularly update the Neural Regeneration Lab and CompLiMet (Computational Lipidomics and Metabolomics) websites.

**Junior Research Technician**

May 2022 – Aug 2022

Faculty of Medicine, University of Ottawa

- Supervised by Dr. Mathieu Lavallée-Adam and Dr. Steffany Bennett.
- Implemented a command-line tool for human plasma protein-protein interaction confidence assessment.
- Developed the website for CompLiMet, a suite of omics data analysis tools.
  - Website: <https://www.complimet.ca>
- Developed (ongoing) the website for LipidManifold, a lipid annotation and mass spectrometry fragmentation database.
  - Website: in development.

**Graduate Student Research Assistant**

Feb 2021 – Dec 2021

National Research Council of Canada

- Supervised by Dr. Miroslava Čuperlović-Culf.
- Created META-BOA, a tool for addressing class imbalance in lipidomics and metabolomics datasets using over-sampling algorithms.

**Graduate Student Research Assistant**

Sept 2019 – Dec 2021

Faculty of Medicine, University of Ottawa

- Supervised by Dr. Mathieu Lavallée-Adam and Dr. Steffany Bennett.
- Created MAGPIE, a machine learning algorithm for the confidence assessment of protein-protein interactions in human plasma.
- Contributed to the research project and publication investigating putatively targeted human protein sequence motifs by the SARS-CoV-2 virus.

**Junior Researcher**

May 2018 – Aug 2019

Employment and Social Development Canada

- Designed new and improved existing applications on both internal and external website platforms, used by government agents and the Canadian population, respectfully.
- Configured and optimized how data is captured within the website (e.g., mapping where meta-data is captured on the website).

**Honours Project Research Student**

Sept 2018 – Apr 2019

Lavallée-Adam Lab, Faculty of Medicine, University of Ottawa

- Supervised by Dr. Mathieu Lavallée-Adam.
- Produced thesis titled, “A machine learning approach to deciphering protein-protein interactions in human plasma”

## Pharmacy Assistant

Apr 2017 – Dec 2018

Rexall Ltd.

- Maintained accurate patient prescription records.
- Filled prescriptions (e.g., counting pills, compounding).

## Junior Accident Analyst

May 2017 – Aug 2017

Transport Canada

- Collected and analyzed large datasets.
- Maintained database and data collection integrity.

## PUBLICATIONS

### PEER-REVIEWED PUBLICATIONS

\* First author, co-first author

[4] Ou, H.\* , Surendra, A.\* , McDowell, G. S. V., **Hashimoto-Roth, E.**, Xia, J., Bennett, S. A. L., & Čuperlović-Culf, M. (2024) Imputation for Lipidomics and Metabolomics (ImpLiMet): Online optimization and method selection for missing data imputation. *Bioinformatics Advances*, 5(1), vbae209. <https://doi.org/10.1093/bioadv/vbae209>

[3] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M.-S., Coulombe, B., & Lavallée-Adam, M. (2024) MAGPIE: A machine learning approach to decipher protein-protein interactions in human plasma. *Journal of Proteome Research*, 24(2), 383–396. <https://doi.org/10.1021/acs.jproteome.4c00160>

[2] **Hashimoto-Roth, E.\***, Surendra, A., Lavallée-Adam, M., Bennett, S. A. L., & Čuperlović-Culf, M. (2022) METAbolomics data Balancing with Over-sampling Algorithms (META-BOA): an online resource for addressing class imbalance. *Bioinformatics*, 38(23), 5326–5327. <https://doi.org/10.1093/bioinformatics/btac649>

[1] Nadeau, R.\* , Shahryari Fard, S.\* , Scheer, A.\* , **Hashimoto-Roth, E.\***, Nygard, D.\* , Abramchuk, I.\* , Chung, Y. E.\* , Bennett, S. A. L., & Lavallée-Adam, M. (2020). Computational Identification of Human Biological Processes and Protein Sequence Motifs Putatively Targeted by SARS-CoV-2 Proteins Using Protein-Protein Interaction Networks. *Journal of Proteome Research*, 19(11), 4553–4566. <https://doi.org/10.1021/acs.jproteome.0c00422>

### IN PREPARATION & UNDER REVIEW

\* First author, co-first author

[2] **Hashimoto-Roth, E.\***, Van, A. D. J., Gunderson, P. E., Wheeler, B. M., & Röst, L. H. (2025) A multi-omic approach to characterize the transition to type II diabetes after gestational diabetes mellitus. *In preparation*.

[1] Van, J. A.\* , Lo, J. C., Zhu, Y., King, A. S., Sun, B., **Hashimoto-Roth, E.**, Röst, H. L., Wheeler, M. B., & Gunderson, E. P. (2025) Early postpartum glucose tolerance reclassification by gestational diabetes mellitus subtypes. *In preparation*.

## SCHOLARSHIP

**Banting & Best Diabetes Centre – Novo Nordisk Graduate Student Award** 2024 – 2025

Amount: CAD\$25,000/year

*Accepted \$480 as a top up to the CIHR award below.*

**Canadian Institutes of Health Research (CIHR) Doctoral Research Award** 2024 – 2027

Amount: CAD\$120,000/3 years

**Ontario Graduate Scholarship** 2023 – 2024

Amount: CAD\$15,000/year

**NSERC-CREATE Metabolomics Advanced Training and International Exchange (MATRIX) Scholarship** 2019 – 2021

Amount: CAD\$40,000/2 years

**NSERC-CREATE MATRIX Metabolomics Research Training Scholarship** November 2020

Amount: CAD\$240

*(To attend the American Society for Mass Spectrometry's virtual 2020 workshop: R Fundamentals and Best Practices for Mass Spectrometry Data Analysis)*

**Neural Regeneration Laboratory Scholarship** 2021

Amount: CAD\$2,000/year

*(To act in a communications role, creating a new Neural Regeneration Laboratory website)*

## HONOURS AND AWARDS

**CNPN-HUPO Trainee Travel Award** June 2023

Canadian National Proteomics Network

- To attend and present at the HUPO 2023 World Congress.
- Amount: Cost of registration + CAD\$500

**Winner of Trainee Pre-Symposium Best Talks** May 2022

Canadian National Proteomics Network 13<sup>th</sup> Annual Symposium

- One of two talks (out of 18) chosen to present at the main symposium.

**Best Thesis Award Nomination** December 2021

Faculty of Medicine, University of Ottawa

- Nominated by M.Sc. thesis defence evaluators.

**Commission on Graduate Studies in Sciences Prize Nomination** December 2021

University of Ottawa

- Nominated by M.Sc. thesis defence evaluators.

**Graduate Student Poster Competition Finalist (online)**

November 2021

HUPO ReCONNECT 2021 World Congress

- One of eight finalists selected from 60 applicants.

**Department Seminar Day Winner (online)**

April 2021

Faculty of Medicine, University of Ottawa

- Ranked 1<sup>st</sup> place among all participating students in my program.
- Evaluations conducted by professors and fellow students.
- Amount: CAD\$100

**Student Travel Award**

March 2020

American Society for Mass Spectrometry

- To attend and present at the 2020 American Society for Mass Spectrometry 68<sup>th</sup> Annual Conference.
- Amount: USD\$200

*Cancelled following the move to an online platform during the COVID-19 pandemic.***Department of Biochemistry, Microbiology and Immunology Travel Award**

May 2019

Faculty of Medicine, University of Ottawa

- To attend and present at the 2019 Canadian National Proteomics Network 11<sup>th</sup> Annual Symposium.
- Amount: CAD\$430

## CONFERENCE ABSTRACT

### ORAL PRESENTATION

\* Presenting author

[10] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M-S., Coulombe, B., Lavallée-Adam, M. (2023) MAGPIE: Using machine learning to assess the confidence of protein-protein interactions in human plasma. Human Proteome Organization World Congress 2023 (HUPO 2023), Busan, South Korea.

[9] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M-S., Coulombe, B., Lavallée-Adam, M. (2022) MAGPIE: Using machine learning to assess the confidence of protein-protein interactions in human plasma. 2022 Department of Biochemistry, Microbiology and Immunology Scientific Symposium, Montebello, QC, Canada.

[8] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M-S., Coulombe, B., Lavallée-Adam, M. (2022) MAGPIE: Using machine learning to assess the confidence of protein-protein interactions in human plasma. 2022 Ottawa Institute for Systems Biology Symposium (OISB 2022), Cornwall, ON, Canada.

[7] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M-S., Coulombe, B., Lavallée-Adam, M. (2022) MAGPIE: Using machine learning to assess the confidence of protein-protein interactions in human plasma. Trainee Pre-Symposium,

Canadian National Proteomics Network 13<sup>th</sup> Annual Symposium (CNPN 2022), Montreal, QC, Canada.

**Selected as one of two trainees (out of 18) to present at the main symposium by a panel of judges.**

- [6] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M.-S., Coulombe, B., Lavallée-Adam, M. (2021) MAGPIE: A machine learning approach to decipher protein-protein interactions in human plasma. Human Proteome Organization World Congress ReCONNECT 2021 (HUPO ReCONNECT 2021), online.
- [5] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M.-S., Coulombe, B., Lavallée-Adam, M. (2021) MAGPIE: A machine learning approach to decipher protein-protein interactions in human plasma. University of Ottawa's Department of Biochemistry, Microbiology and Immunology Seminar Day, online.  
**Selected as 1<sup>st</sup> place prize winner for best presentation by an M.Sc. student.**
- [4] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M.-S., Coulombe, B., Lavallée-Adam, M. (2021) MAGPIE: A machine learning approach to decipher protein-protein interactions in human plasma. Main Symposium, Canadian National Proteomics Network Annual Symposium (CNPN 2021), online. **Invited talk.**
- [3] Patel, A.\*, Suk, T., Callaghan, S., **Hashimoto-Roth, E.**, Lavallée-Adam, M., Ngsee, J., Rousseaux, M. (2020) Mapping the ALS linked interactome. Brain and Mind Institute's Brain Health Research Week, online.
- [2] Scheer, A.\*, Nadeau, R., Nygard, D., **Hashimoto-Roth, E.**, Shahryari-Fard, S., Abramchuk, I., Chung, Y.-E., Lavallée-Adam, M. (2020) Identification of human biological processes and protein sequence motifs putatively targeted by SARS-CoV-2 proteins. Intelligent Systems for Molecular Biology 28<sup>th</sup> Conference (ISMB 2020 COVID-19), online.
- [1] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Coulombe, B., Gauthier, M.-S., Lavallée-Adam, M. (2019) A machine learning approach to decipher protein-protein interactions in human plasma. Trainee Pre-Symposium, Canadian National Proteomics Network 11<sup>th</sup> Annual Symposium (CNPN 2019), Quebec City, QC, Canada.

## POSTER PRESENTATION

\* Presenting author

- [11] **Hashimoto-Roth, E.\***, Van, J. A. D., Gunderson, E. P., Wheeler, M. B., & Röst, H. A. (2025) Identifying biomarkers of disease progression from gestational to type 2 diabetes for machine learning-based prediction and deeper metabolic characterization. Metabolomics Society 21<sup>st</sup> Annual Conference (Metabolomics 2025), Prague, Czech Republic.
- [10] **Hashimoto-Roth, E.\***, Van, J. A. D., Gunderson, E. P., Wheeler, M. B., & Röst, H. A. (2025) Identifying biomarkers of disease progression from gestational to type 2 diabetes for machine learning-based prediction and deeper metabolic characterization. Banting & Best Diabetes Centre 34<sup>th</sup> Annual Scientific Day, Toronto, ON, Canada.

- [9] **Hashimoto-Roth, E.\***, Van, J. A. D., Gunderson, E. P., Wheeler, M. B., & Röst, H. L. (2024) Identifying biomarkers of gestational diabetes mellitus and type 2 diabetes for machine learning-based disease prediction and deeper characterization of insulin resistance metabolism. 2024 Department of Molecular Genetics Retreat, Niagara-on-the-Lake, ON, Canada.
- [8] **Hashimoto-Roth, E.\***, Čuperlović-Culf, M., Bennett, S. A. L. (2023) Constellation Network Maps: An innovative R package for mapping Lipid Network Disruptions in dementia with Lewy Bodies applicable to all dementias. International Conference on Alzheimer's and Parkinson's Diseases and related neurological disorders (AD/PD 2023). Gothenburg, Sweden.
- [7] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M.-S., Coulombe, B., Lavallée-Adam, M. (2022) MAGPIE: Using machine learning to assess the confidence of protein-protein interactions in human plasma. Trainee Pre-Symposium, Canadian National Proteomics Network 13<sup>th</sup> Annual Symposium (CNPN 2022), Montreal, QC, Canada.
- [6] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M.-S., Coulombe, B., Lavallée-Adam, M. (2021) MAGPIE: A machine learning approach for deciphering protein-protein interactions in human plasma. Human Proteome Organization World Congress ReCONNECT 2021 (HUPO ReCONNECT 2021), online.  
**Selected as finalist in graduate student poster competition.**
- [5] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S. A. L., Gauthier, M.-S., Coulombe, B., Lavallée-Adam, M. (2021) MAGPIE: A machine learning approach to decipher protein-protein interactions in human plasma. American Society for Mass Spectrometry's 69<sup>th</sup> Annual Conference (ASMS 2021), online.
- [4] Patel, A. \*, Suk, T., Callaghan, S., **Hashimoto-Roth, E.**, Lavallée-Adam, M., Ngsee, J., Rousseaux, M. (2020) Using a proteomic approach to map the interactome of TDP-43 in the content of ALS. 31<sup>st</sup> International Symposium on ALS/MND, online.
- [3] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S., Gauthier, M.-S., Coulombe, B., Lavallée-Adam, M. (2020) A machine learning approach for deciphering protein-protein interactions in human plasma. Intelligent Systems for Molecular Biology 28<sup>th</sup> Conference (ISMB 2020), online.
- [2] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Bennett, S., Gauthier, M.-S., Coulombe, B., Lavallée-Adam, M. (2020) A machine learning approach for deciphering protein-protein interactions in human plasma. American Society for Mass Spectrometry 68<sup>th</sup> Annual Conference Reboot (ASMS 2020 Reboot), online.
- [1] **Hashimoto-Roth, E.\***, Forget, D., Gaspar, V., Coulombe, B., Gauthier, M.-S., Lavallée-Adam, M. (2019) A machine learning approach to decipher protein-protein interactions in human plasma. Canadian National Proteomics Network 11<sup>th</sup> Annual Symposium (CNPN 2019), Quebec City, QC, Canada.



## SCHOLARLY AND PROFESSIONAL ACTIVITY

### **Invited Session Co-Chair**

Feb 2025 – present

Human Proteome Organization 24<sup>th</sup> World Congress (HUPO 2025)

- Co-chair of the Data Integration and Innovative Computational Methods for Systems Biology session at HUPO 2025 with Dr. Henning Hermjakob (EMBL-EBI, UK).
- Guide the session by introducing speakers, moderating the Q&A period, and ensuring the session ends on time.
- Review all submitted abstracts for the session and selecting those for oral presentations.

### **Leader of Early Career Researcher Manuscript Competition**

Jan 2025 – present

Human Proteome Organization 24<sup>th</sup> World Congress (HUPO 2025)

- Facilitate and manage the organization of the HUPO Early Career Researcher Manuscript Competition, sponsored by Taylor and Francis.
- Compose monthly newsletter announcements.
- Recruit and coordinate with volunteers to review submissions and identify three finalists who will present their manuscripts in a live session at HUPO 2025.
- Recruit volunteers to serve as judges at the live session.

### **Marketing and Outreach Committee (MOC) Member**

Jan 2021 – present

Human Proteome Organization (HUPO)

#### *Co-Chair*

Feb 2024 – present

- Support MOC Chair in leading committee activities and meetings.
- Supervise working groups through fulfilling their goals.
- Attend Executive Committee meetings and liaise updates to MOC.

#### *Chair of Branding Working Group*

Jun 2023 – present

- Lead the efforts to maintain the organization's brand identity.
- Create and maintain the HUPO Brand Guide.
- Maintain the HUPO Social Media and Webinar Guides.
- Contribute to the Social Media Working Group.

### *Early Career Researcher (ECR) Committee Representative*

Jan 2021 – Jun 2023

- Liaise between the ECR and MOC.
- Create the HUPO Social Media and Webinar Guides.
- Create volunteer opportunities for trainees and early career researchers.
- Develop initiatives to highlight members of the global proteomics research community.
- Design and procure merchandise for *Humans of HUPO* initiative.

### **Early Career Researcher (ECR) Committee Member**

Nov 2020 – present

Human Proteome Organization (HUPO)

#### *Vice-Chair of Logistics*

Oct 2024 – present

- Elected by members of the ECR Committee.
- Oversee all World Congress activities, awards, and competitions.
- Ensure that members responsible for World Congress activities, awards, and competitions are on schedule.
- Manage any new World Congress activities.
- Report on World Congress activities to ECR Committee.



*General Member* Nov 2020 – Oct 2024

- Create promotional content for events and monthly newsletters.
- Advertise ECR Initiative activities across social media accounts.
- Contribute to the organization of a monthly seminar series.
- Contribute to the organization of ECR activities at the annual World Congress.
- Organized a design competition for a new ECR logo.

**Operations Management Team Member** Nov 2020 – present  
Canadian National Proteomics Network (CNPN)

*Content Lead* Sept 2022 – present

- Design and create content for email campaigns, social media, and website.
- Provide media support for the annual symposium.

*Website Lead* Nov 2020 – Sept 2022

- Lead and execute the organization's rebranding and website redesign/build.
- Optimize integration of mailing lists with the website.
- Aid in the development of a new monthly seminar series.
- Provide support for the annual symposium.

**Early Career Research Poster Competition Abstract Evaluator** July 2025  
Human Proteome Organization 24<sup>th</sup> World Congress (HUPO 2025)

**Artificial Intelligence in Proteomics Session Abstract Evaluator** May 2025  
Human Proteome Organization 24<sup>th</sup> World Congress (HUPO 2025)

**Organizing Committee Member** Jan 2025 – May 2025  
Terrence Donnelly Centre for Cellular & Biomolecular Research 2025 Retreat

- Created a programme detailing the events of the retreats.
- Designed posters for advertising interest surveys and registration.
- Coordinated transportation to and from the retreat venue (Blue Mountain, Ontario).
- Contributed to arranging event logistics.
- Contributed to selecting keynote speakers.

**Co-Founder and Communications Director** Nov 2023 – Dec 2024  
Toronto Bioinformatics Hackathon

- Contribute to drafting the inaugural event proposal.
- Design organization's logo and brand identity.
- Create and maintain the organization's website.
- Act as a point of contact for prospective sponsors and partners.
- Coordinate sponsorship outreach strategy with Outreach Executive.
- Coordinate social media activity with Media Executive.

**Early Career Research Poster Competition Abstract Evaluator** July 2024  
Human Proteome Organization 23<sup>rd</sup> World Congress (HUPO 2024)

**3-Minute Thesis Competition Abstract Evaluator** June 2024  
Human Proteome Organization 23<sup>rd</sup> World Congress (HUPO 2024)

<b>Graduate Student 3-Minute Thesis Competition Judge</b> Spotlight Series Webinar, Canadian National Proteomics Network	May 2024
<b>HUPO 2023 AI Tools in Writing Co-Chair</b> Early Career Researcher Committee Mentoring Session, HUPO <i>Previously called Early Career Researcher Initiative</i>	September 2023
<b>Trainee Pre-Symposium Abstract Evaluator</b> Canadian National Proteomics Network 14 <sup>th</sup> Annual Symposium (CNPN 2023)	April 2023
<b>Poster Evaluator</b> Ottawa Institute for Systems Biology Symposium (OISB 2022)	May 2022
<b>Annual Symposium Session Co-Chair</b> Canadian National Proteomics Network 13 <sup>th</sup> Annual Symposium (CNPN 2022)	May 2022
<b>Trainee Pre-Symposium Abstract Evaluator</b> Canadian National Proteomics Network 13 <sup>th</sup> Annual Symposium (CNPN 2022)	April 2022
<b>Director of Communications</b> Executive Team, Pulsar Collective <ul style="list-style-type: none"> <li>• Act as a founding member of the organization.</li> <li>• Act as the team lead for marketing and communications team.</li> <li>• Build and maintain the organization's website and mailing lists.</li> </ul>	Oct 2018 – Dec 2021
<b>HUPO ReCONNECT 2021 Proteomics 101 Video Invited Speaker (online)</b> Early Career Researcher Initiative Proteomics 101 Session, HUPO	November 2021
<b>HUPO ReCONNECT 2021 Scientific Integrity Co-Chair (online)</b> Early Career Researcher Initiative Mentoring Session, HUPO	November 2021
<b>Spotlight Series Seminar Chair (online)</b> Canadian National Proteomics Network <i>Previously called CanProteoTalks</i>	October 2021
<b>Promoting Diversity in Proteomics Chair (online)</b> Early Career Researcher Committee Panel Series, HUPO	May 2021
<b>Conference Moderator (online)</b> IgNITE Medical Case Competition	February 2021
<b>Team Mentor</b> IgNITE Medical Case Competition <ul style="list-style-type: none"> <li>• Provided guidance for creating impactful scientific abstracts, posters, and oral presentations.</li> <li>• Mentored three teams of high school and undergraduate students participating in the competition.</li> <li>• Continued mentoring one team that successfully made it to the final competition round.</li> </ul>	Oct 2020 – Feb 2021

**Critically Appraising Research Workshop Co-host (online)** November 2020  
IgNITE Medical Case Competition

**Biopharmaceutical Science Program Representative** March 2019  
University of Ottawa Open House

**Guest Speaker** January 2019  
Biopharmaceutical Science Information Night, Science Students' Association

**Lavallée-Adam Laboratory Representative** November 2018  
Networking Event for 2019 – 2020 Undergraduate Honours Projects, University of Ottawa

## COMMUNITY INVOLVEMENT

**Banner and Flyer Designer** May 2024  
Human Proteome Organization (HUPO)

- Designed a large banner and flyer for advertising the 23<sup>rd</sup> HUPO World Congress at the 22<sup>nd</sup> Japanese Proteomics Society Annual Conference.

**First Year Mentor** Sept 2023 – May 2024  
Molecular Genetics Graduate Student Association (MoGen GSA)

- Act as a dedicated point of contact for four first-year graduate students, supporting them through their first year of the Molecular Genetics M.Sc. and direct entry Ph.D. programs.
- Attend and help facilitate orientation events for first-year graduate students.

**Graphic Designer** Feb 2023 – Feb 2024  
Molecular Genetics Graduate Student Association (MoGen GSA)

- Design and create content for advertising MoGen GSA activities.

**Conference Poster Designer and Creator** Sept 2022 – May 2023  
CSMB 2023 Conference, Canadian Society for Molecular Biosciences (CSMB)

- Collaborate with planning committee members.
- Design and create the poster used to advertise the conference, and programme cover.

**Email Ambassador** March 2023  
Molecular Genetics Graduate Student Association (MoGen GSA)

- Reached out to assigned prospective M.Sc. and direct entry Ph.D. Molecular Genetics students (i.e., students with offers of acceptance for Fall 2023 entry).
- Acted as a dedicated point of contact to answer questions pertaining, but not limited, to the program, graduate student life, and living in Toronto.

**Photographer** May 2022  
Discovery Day 2022, Faculty of Medicine, University of Ottawa

- Attended both English and French Discovery Day sessions.
- Took and edited photos, capturing moments throughout the event.

**Grade 12 Biology Guest Speaker (virtual)**

May 2022

The Hill Academy, Caledon, Ontario

- Gave grade 12 students an overview of the bioinformatics field.
- Answered questions regarding navigating post-secondary education in STEM, seeking research opportunities, and the job market.

**Leadership Program Staff Member**

Sept 2019 – Sept 2021

Ridgemont High School (RHS), Ottawa Carleton District School Board

- Act as a fully vetted Ottawa Network for Education (ONFE) volunteer.
- Carry out supporting roles during the preparation and execution of the RHS bi-annual leadership camp.

**Vice-President (VP) of Social Media**

Oct 2020 – Apr 2021

Biochemistry, Microbiology and Immunology Graduate Student Association (BMIGSA)

- Act as the BMIGSA's first VP of Social Media.
- Manage the BMIGSA social media channels.
- Create and organize content.

**Conference Poster Designer and Creator**

Feb 2020 – Mar 2020

CSMB 2020 Conference, Canadian Society for Molecular Biosciences (CSMB)

- Collaborated with planning committee members.
- Designed and created the poster used to advertise the conference.

*Cancelled to preserve the efforts combatting the COVID-19 pandemic.***Social Media Coordinator**

Aug 2017 – Apr 2018

Science Students' Association, University of Ottawa

- Act as the association's first Social Media Coordinator.
- Work with the association's Vice President of Promotional Affairs.
- Increased the association's online presence and student engagement.

**101 Week Head Guide**

Jul 2017 – Sept 2017

Science Students' Association, University of Ottawa

- Led and ensured the safety of a group of incoming first-year science undergraduates through a week of events.
- Provided safe, accompanied walks home for students living in the downtown Ottawa area.

**Departmental Representative**

Oct 2016 – Apr 2017

Science Students' Association, University of Ottawa

- Acted as a voice for the Biopharmaceutical Sciences students at council meetings.
- Organized and ran academic and social events.

## OTHER AWARDS

### **Logo Competition Winner**

Centre for Infection, Immunity and Inflammation, University of Ottawa

December 2020

- Amount: CAD\$250

### **Illustration Contest 2<sup>nd</sup> Place Winner**

Department of Biochemistry, Microbiology and Immunology, University of Ottawa

February 2019

- Amount: CAD\$100

## SKILLS

### COMPUTER SKILLS

- Programming with R and Python.
- Creating responsive websites with HTML, CSS, Bootstrap, and React.
- Using SLURM for task management on high-performance computing clusters.
- Proficient with Microsoft Office, Adobe Photoshop, Lightroom, Illustrator, InDesign, and Dreamweaver.

### PHOTOGRAPHY

- Canon EOS 90D DSLR