

# NADINE EL-MUFTI

Canadian Citizen, residing in 📍 Montreal, QC

📞 (514) 802-3932 | ✉️ | 🌐 | 📧 | 🌐 |

## WORK EXPERIENCE

### **The Douglas Research Centre, McGill University**

*Graduate Research Assistant*

Montreal, QC

Jun 2025 – Present

- Driving speech-based relapse prediction research in schizophrenia (MOTS+) in collaboration with Dr. Lena Palaniyappan and Dr. Alban Voppel by coordinating multisite data collection using REDCap workflows and powering the Québec Speech Bank by engineering pipelines to clean, align, and structure longitudinal speech data across diverse studies. This work enables multimodal insights into voice, symptoms, and cognition, paving the way for more predictive, compassionate mental health care.

### **Applied Perception Lab, Concordia University**

*Graduate Research Assistant*

Montreal, QC

Dec 2024 – Present

- Driving research at the intersection of AI, ethics, and equity, diversity, and inclusion (EDI) to develop actionable frameworks that address pressing societal challenges and advance responsible, human-centered healthcare technology.

### **Mila - Quebec AI Institute**

*Collaborating Researcher*

Montreal, QC

Oct 2024 – Present

- Leading novel research in Medical Machine Learning for early disease detection via speech analysis, covering the entire ML lifecycle from dataset curation to model training, evaluation, optimization, and deployment.

### **Concordia University**

*Teaching Assistant*

Montreal, QC

Jan 2025 – April 2025

- Achieving consistent and fair grading for Concordia's Machine Learning course 'Comp 432' by marking labs, delivering prompt feedback, and addressing inquiries from 110 students.

### **Applied Perception Lab**

*NSERC USRA Research Assistant*

Montreal, QC

May 2022 – Aug 2022

- Co-authored a conference paper for Medical Image Computing and Computer Assisted Intervention (MICCAI) 2022's Ethical and Philosophical Issues in Medical Imaging (EPIMI) workshop, presenting a comprehensive User-Centered Design approach to identify and address Ventriculostomy surgeons' workflow challenges, to improve surgical efficiency.

## PUBLISHED & ON-GOING RESEARCH

### [User-Centered Design for Surgical Innovations: A Ventriculostomy Case Study](#)

Lecture Notes in Computer Science — Volume 13755 · Dec 20, 2022

### [Beyond the Scalpel: Envisioning the Societal and Ethical Dimensions of Future Surgical Technologies](#) *(In Revision)*

### [Enhancing Speech-Based Parkinson's Detection with Celebs4PD: A Corpus of Natural, In-the-Wild, Longitudinal Celebrity Speech](#) *(In Preparation)*

## LEADERSHIP, SERVICE & ENGAGEMENT

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| <b>Membre</b><br>Association Étudiante de Mila (AÉM)   Mila - Quebec AI Institute        | Montreal, Quebec<br>Oct 2025 – Present  |
| <b>Member</b><br>Senate Standing Committee on Research   Concordia University            | Montreal, Quebec<br>Sep 2025 – Present  |
| <b>Organizer</b><br>BrainHack MTL 2026   Concordia University x McGill University x Mila | Montreal, Quebec<br>July 2025 – Present |
| <b>Ambassador</b><br>School of Graduate Studies   Concordia University                   | Montreal, Quebec<br>Sep 2024 – Present  |

## EDUCATION

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|---|---|
| <b>Master of Computer Science   Computer Science</b><br><i>Concordia University / Mila - Quebec AI Institute</i>      | Montreal, Quebec<br>Jan 2025 – Present  |
| <b>Bachelor of Engineering   Software Engineering</b><br>GPA (3.67)   With Distinction<br><i>Concordia University</i> | Montreal, Quebec<br>Jan 2019 – May 2024 |

## LICENSES & CERTIFICATIONS

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| <a href="#"><u>Quebec Scientific Entrepreneurship Program (QcSE)</u></a><br>Issued by V1 Studio  | Jun 2025 |
| <a href="#"><u>Strategic Public Communications Training</u></a><br>Issued by GradProSkills (Concordia University)                              | Mar 2025 |
| <a href="#"><u>TRAIL Research   Trustworthy and Responsible AI Learning Certificate</u></a><br>Issued by Mila - Quebec Artificial Intelligence | Mar 2025 |
| <a href="#"><u>TCPS 2: CORE 2022 Certification</u></a><br>Issued by the Government of Canada   | Jan 2025 |
| <a href="#"><u>Tech Stewardship Certification</u></a><br>Issued by the Tech Stewardship Network  | Jul 2024 |

## HONORS & AWARDS

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| <b>Arbour Foundation Master's Scholarship</b><br>Issued by Fondation Arbour   | Sep 2025 |
| <b>FRQNT B1X Award Competition – 92/100, Ranked 9th (Funding Cutoff: 8)</b><br>Issued by the Fonds de recherche du Québec             | Apr 2025 |
| <b>NSERC CGS-M Award</b><br>Issued by the Natural Sciences and Engineering Research Council of Canada                                 | Apr 2024 |
| <b>NSERC Undergraduate Student Research Award (USRA)</b><br>Issued by the Natural Sciences and Engineering Research Council of Canada | May 2022 |
| <b>Bourses d'Excellence for Engineering Scholarship</b><br>Issued by the Quebec Ministry of Education                                 | Jun 2022 |