[**NADINE EL-MUFTI**](https://njayem.github.io/)

Canadian Citizen, residing in A black background with a black square

Description automatically generated with medium confidence Montreal, QC

[![A blue square with white letters

Description automatically generated]()](https://www.linkedin.com/in/nadine-el-mufti/)[A black background with a black square

Description automatically generated with medium confidence](https://github.com/njayem)[![A red and white envelope with a black background

Description automatically generated]()](mailto:nadine.el.mufti@gmail.com)A black background with a black square

Description automatically generated with medium confidence(514) 802-3932 **|** **| | |**

**WORK EXPERIENCE**

**The Douglas Research Centre, McGill University** Montreal, QC

*Graduate Research Assistant* 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** Montreal, QC

*Graduate Research Assistant*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** Montreal, QC

*Collaborating Researcher* 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** Montreal, QC

*Teaching Assistant* 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** Montreal, QC

*NSERC USRA Research Assistant*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**](https://link.springer.com/chapter/10.1007/978-3-031-23223-7_5)

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**

**Member**  Montreal, Quebec

Senate Standing Committee on Research | Concordia University Sep 2025 – Present

**Organizer** Montreal, Quebec

BrainHack MTL 2026 | Concordia University x McGill Universityx Mila July 2025 – Present

**Ambassador** Montreal, Quebec

School of Graduate Studies | Concordia UniversitySep 2024 – Present

**EDUCATION**

**Master of Computer Science | Computer Science** Montreal, Quebec*Concordia University / Mila - Quebec AI Institute* Jan 2025 – Present

**Bachelor of Engineering | Software Engineering** Montreal, QuebecGPA (3.67) | With Distinction Jan 2019 – May 2024

*Concordia University*

**LICENSES & CERTIFICATIONS**

**Ethics and Governance of Artificial Intelligence for Health** Jul 2025

Issued by The WHO Academy

[**Quebec Scientific Entrepreneurship Program (QcSE)**](https://verified.sertifier.com/en/verify/14899124979984/)Jun 2025

Issued by V1 Studio

[**Strategic Public Communications Training**](https://app-ca.clickdimensions.com/blob/concordiaca-a8jj7/files/nadineelmufti_spct.pdf#page=1.00&gsr=0) Mar 2025

Issued by GradProSkills (Concordia University)

[**TRAIL Research | Trustworthy and Responsible AI Learning Certificate**](https://www.virtualbadge.io/certificate-validator?credential=dc595055-6e7c-485b-a3c9-bb7fd8eec548) Mar 2025

Issued by Mila - Quebec Artificial Intelligence

[**TCPS 2: CORE 2022 Certification**](https://drive.google.com/file/d/1rCDIrcQ7AjrW7oXkmqn8QLVimUWgWjr2/view?usp=sharing) Jan 2025

Issued by the Government of Canada

[**Tech Stewardship Certification**](https://credentials.techstewardship.com/en/verify/88109651148606) Jul 2024

Issued by the Tech Stewardship Network

**HONORS & AWARDS**

**Arbour Foundation Master's Scholarship** Sep 2025

Issued by Fondation Arbour

**FRQNT B1X Award Competition – 92/100, Ranked 9th (Funding Cutoff: 8)** Apr 2025

Issued by the Fonds de recherche du Québec

**NSERC CGS-M Award**  Apr 2024

Issued by the Natural Sciences and Engineering Research Council of Canada

**NSERC Undergraduate Student Research Award (USRA)** May 2022

Issued by the Natural Sciences and Engineering Research Council of Canada

**Bourses d’Excellence for Engineering Scholarship** Jun 2022

Issued by the Quebec Ministry of Education