

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

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

EDUCATION

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

LICENSES & CERTIFICATIONS

Quebec Scientific Entrepreneurship Program (QcSE) Issued by V1 Studio	Jun 2025
Strategic Public Communications Training Issued by GradProSkills (Concordia University)	Mar 2025
TRAIL Research Trustworthy and Responsible AI Learning Certificate Issued by Mila - Quebec AI Institute	Mar 2025
TCPS 2: CORE 2022 Certification Issued by the Government of Canada	Jan 2025
Tech Stewardship Certification Issued by the Tech Stewardship Network	Jul 2024

HONORS & AWARDS

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