Cathrine **Nayrouz**

Data Scientist

Cathrine Nayrouz · 4205 Shipp Dr, Mississauga, On · (647)389-7867
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Interests

Environmental sustainability
Environmental data science
Eco-informatics
Medical informatics
Neurodegenerative diseases
Motor neuron disease research
Biomedical machine learning
Computational neuroscience
Predictive modeling
Health data analytics
Data stewardship
Metadata standards
Interoperability
Data governance
Responsible AI

Pleasure Projects

Facial classification software using big data From Fair Face, and other organizations that aim to reduce bias in facial recognition
Neural Network Model analysing MRI Brain Scans

Volunteer Work

Tutoring New Immigrants in Maths and English / September 2015 - Present
Food Banks / November 2018 - Present Special Needs Camp / September 2017 Multiculture Event Organisation / May 2015- May 2018

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CathPierre

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EXPERIENCE

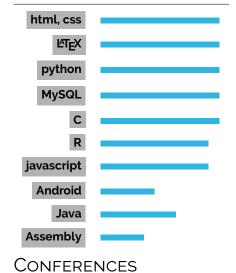|	
July 2024 - Present	**CAN2oNET/ADC Reasearch Collaboration Project** DATA MANAGER · University of Guelph Design and implement a data pipeline, and data governance system for a Canada wide research group collecting big data for soil analysis and nitrogen dioxide emissions research
2025-Present	**AIR ALERT** RESEARCH ASSOCIATE · St. Joseph's Healthcare Hamilton Data collection, analysis, and clean up. Collecting thermal imaging data in hemodialysis unit using a thermal camera (FLIR), and using collected participant data to reconstruct metabolic markers such as heart rate and respitory rate for health surveillance.
Sept 2024	**CARE-AI** CURRICULUM WRITING · University of Guelph Helped write and design an AI curriculum to help inform industry professionals about AI topics, and responsible AI
2019-2020	**Linamar** RESEARCH ASSOCIATE · Guelph Data collection, analysis, and clean up. Using predictive modelling on high frequency data to predict tool life
2019-2020	**Graduate Teacher's Assistant** RESEARCH ASSOCIATE · University of Guelph Served as a Graduate Teaching Assistant for various courses including CIS*2250 Software Design II, CIS*3010 Systems Programming, and CIS*3090 Parallel Programming, CIS*2030 Microcomputing. Where I delivered guest lectures, ran labs and seminars, and held office hours. As well as writing assignments and labs.

DEGREES

2025	**Masters of Science** MSc OF COMPUTER SCIENCE · University of Guelph
2021	**Bachelors of Science** BSc.IN COMPUTER SCIENCE, WITH AN AREA OF APPLICATION IN PHILOSOPHY, AND PSYCHOLOGY BRAIN AND COGNITION · University of Guelph

PROGRAMMING

html, css

LATEX

python

MySQL

C

R

javascript

Android

Java

Assembly

LANGUAGES

Arabic	C2	mother tongue
English	C2	● ● ● ●
French	A2	● ○ ○ ○

CONFERENCES

June. 2024	"Modelling Motor Neuron Diseases in Sythetic Muscles" at: *ISEK's Poster Session* in Japan.

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