

Andrea Perera-Ortega

Research MSc Candidate
Entrepreneur & Designer

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(416) 893-7813

EDUCATION

Queen's University, Kingston — *MSc in Computing (AI Focus)*

SEPTEMBER 2020 - PRESENT

- **cGPA:** 4.3/4.3

Queen's University, Kingston — *BSc in Biomedical Computation*

SEPTEMBER 2016 - APRIL 2020

- **Dean's Honour List** (2017-2020)

WORK EXPERIENCE

Med-i Lab, Queen's University — *Research Assistant*

APRIL 2020 - PRESENT

My research focuses on using machine learning techniques to classify prostate cancer severity in ultrasound images. Previously I worked on the detection of epileptic lesions in brain MR images using similar techniques. I am also the lab's website and social media manager.

School of Computing, Queen's University — *Teaching Assistant*

JULY 2020 - PRESENT

I have been a teaching assistant for several courses, including: Introduction to Computing Science I (CISC 121), Fundamentals of Software Development (CISC 320), Computational Biology (CISC 471), and the Undergraduate Research Project (CISC 499).

Herban Studios — *Founder & CEO*

JULY 2021 - PRESENT

Herban Studios is an e-commerce small business specializing in curated plant accessories and handmade botanical decor: herbanstudios.ca

Aroha — *Co-Founder and CMO*

JUNE 2020 - AUGUST 2021

Aroha is working to help post-secondary students in their transition to university by developing a platform that provides internship opportunities and mentorship from current students. Re-branded to Propel: joinpropel.ca. I stepped down to focus on school.

OBJECTIVE

I am a second year Master's student at Queen's University looking to build new experiences and challenge myself as a programmer and designer. I have a diverse array of interests including machine learning, biomedical computing, AI ethics, law, and design. My goal is to be a part of something innovative and creative while working in a positive environment with others.

DEVELOPMENT

Python
Tensorflow, Keras
HTML, CSS, JS
MATLAB
C++

DESIGN

Adobe XD
Sketch
Photoshop
Lightroom

LANGUAGES

English, Spanish (Native proficiency)

SKILLS

Freelance web developer
Quick learner
Strong interpersonal skills
Entrepreneurial skills
Strong work ethic

Scotiabank, Toronto — *Junior Product Owner*

MAY 2019 - AUGUST 2019

I worked in the Business Banking Onboarding Lab to develop an application to onboard small business clients. My role consisted of conveying stakeholder needs, writing product requirements, and assisting with UI/UX design.

inField ID — *Co-Founder and CMO*

JUNE 2018 - JULY 2019

inField is an AI-based agriculture tech start-up developing software to help researchers quickly identify plant pests and invasive species on their smartphone cameras. We were awarded \$10k at the 2018 Dunin-Deshpande Pitch Competition

SCHOLARSHIPS AND AWARDS

- **NSERC CGS-M Scholarship Recipient** (Sept 2021 - Sept 2022)
- **Best Pitch Presentation** for my paper “Machine Learning to Detect Brain Lesions in Focal Epilepsy” at the Imaging Network Ontario (ImNO) 2021 conference.

PUBLICATIONS

- Isen, J., Perera-Ortega, A., et al. (September 2021). Non-Parametric Combination of Multimodal MRI for Lesion Detection in Focal Epilepsy. ***NeuroImage: Clinical***, 102837
- Isen, J., Perera-Ortega, A., et al. (August 2021). Multimodal MRI for Lesion Detection in MRI-Negative Focal Epilepsy. ***34th International Epilepsy Congress***
- Perera-Ortega, A., et al. (March 2021). Machine learning to detect brain lesions in focal epilepsy. In ***The 19th Annual Symposium of the Imaging Network of Ontario (ImNO)*** (Podium presentation).
- Perera-Ortega, A., et al. (February 2021). Machine learning to detect brain lesions in focal epilepsy. In ***Medical Imaging 2021: Image-Guided Procedures, Robotic Interventions, and Modeling*** (Vol. 11598, p. 1159814). International Society for Optics and Photonics (Podium presentation).
- Isen, J., Perera-Ortega, A., et al. (November 2020). Voxel based analysis of multimodal MRI for brain lesion detection in focal epilepsy. ***American Epilepsy Society 2020 Conference***