Eric Elmoznino

Cognitive Science Student

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Websites
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Education

MA | Cognitive Science
Johns Hopkins University
2019-Present

BASc | Computer Engineering
University of Toronto
2014-2019

DCS | Health Sciences
Dawson College
2012-2014

Skills

Languages/Frameworks
Python, Matlab, C++, C, C#, Swift/iOS, PyTorch, TensorFlow, JavaScript, HTML, CSS, Flask

Subjects/Techniques
Machine Learning, Full-Stack Web, Mobile App Dev.

Spoken Languages
English, French (Fluent in both)

Interests

Mind and Brain
Consciousness, formation and representation of causal models, representation of abstract knowledge and information, vision, AI, computational models

Public Speaking
Technical presentations, participation in public speaking competitions

Sports
Snowboarding, tennis, basketball, ice hockey

Other Disciplines
Computer Science, Genetics, Astrophysics, Philosophy of mind

Research & Work Experience

2019-Now — Cognitive Science Researcher — Johns Hopkins University, Baltimore, MD
Research on information representation and algorithms in the visual system of the human brain with professor Michael Bonner

2017-19 — Machine Learning Researcher — ModiFace, Toronto, ON
Work on computer vision machine learning models for the beauty industry & research papers on makeup rendering and skin condition diagnostics using deep learning

2018 — Machine Learning Researcher — Precious, Toronto, ON (Remote)
Work on computer vision machine learning models related to facial perception for a mobile app that automatically makes photo albums of babies for new parents

2016 — Software Developer Intern — Orbis Investments, Vancouver, BC
Full-stack web development using AngularJS, Angular Material, ASP.NET MVC, Web API, and SQL Server in order to improve internal workflow efficiency for financial reporting

2012-14 — Private, Infantry Division — Canadian Armed Forces (Reserves), Valcartier, QC
Discipline and weapons training & participation in combat and reconnaissance exercises & coordinate and lead section members in combat drills

Projects

2018-19 — The History of You (human memmory augmentation)
Mobile app and algorithms to record, transcribe, and store your conversations, as well as later retrive their content through search

2017 — Music-Generating AI
Music generating machine learning model that uses DBN's conditioned on the state of LSTM's to probabilistically play different notes

2017 — Spatially-Aware AI
Machine learning model that uses CNN's to predict it's own position and orientation, trained using synthetic data from my ray tracer

2017 — Ray Tracer
Ray tracer implementing anti-aliasing, soft shadows, glossy reflections, refraction, texture mapping, and bounding-box hierarchies

2014-16 — University of Toronto Aerospace Team (UTAT) - Attitude Determination and Control Subsystems (ADCS) Team Lead
Design and implementation of ACDS on the UTAT 3U satellite for the 2016 Canadian Satellite Design Challenge & modeling of physical forces on the satellite in orbit using Matlab

2015-16 — iOS App Development
App allowing users to create and solve electric circuits & app helping users keep track of group expenses and the amounts owed

Extra-Curricular Activities

2018 — Co-Professor for ECE1780 — University of Toronto, Toronto, ON
Taught lectures for a graduate course on deep learning using TensorFlow for mobile devices under professor Parham Aarabi

2015-16 — Finance Chair — Electrical and Computer Engineering Club, Toronto, ON
Elected by peers at the University of Toronto to manage the club budget and plan social activities

2014-15 — Class Representative — Electrical and Computer Engineering Club, Toronto, ON
Elected by peers at the University of Toronto to represent student interest at faculty meetings and address their concerns