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Anthony G.X. Chen

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https://im-ant.github.io/

Experience

| **Software Developer** | **MUHC** | **May 2016 – Present** |

- Developed data extraction algorithms, reduced analysis time by over 90%; they have since been adopted to other research projects and is currently being implemented as a clinical diagnostic tool

| **Computing Researcher** | **CoBrA Lab** | **Summer 2017** |

- Applied unsupervised learning to MRI data analysis in building a data-driven processing pipeline
- Wrote scripts to remove human intervention in data pre-processing, now used by other researchers

| **Teaching Assistant** | **McGill University** | **Winter 2017** |

- Course: Logic and Discrete Mathematics (Discrete Structures I)

Projects

| **Cluster_Stability_Analyzer** | **2017** |

- Reduced space complexity from $\mathbf{O}(n^2)$ to $\mathbf{O}(n)$ in Ben-Hur's 2002 (Pacific Symposium on Biocomputing) method for stability analysis that counts the number of common edges between graphs

| **Monkey_Mind_Reading** | **2017** |

- Used deep neural net (*Keras* and *TensorFlow*) to analyze biological neuron recording from monkeys
- Able to predict monkey eye movement with over 90% accuracy

| **ClinVar_Pathogenicity_Finder** | **2016** |

- A highly scalable tool for automated, large scale identification of disease status using genetic information via the *ClinVar* database from the National Institute of Health

Education

| **Montreal, QC** | **McGill University** | **Sept 2015 - April 2019** |

- *B.Sc. Major Computer Science and Biology.* (GPA: 4.0/4.0)
- Selected coursework: Algorithms & Data Structures, Software Systems, Programming Languages, Machine Learning, Discrete Mathematics, Calculus, Probability

Awards

| **Winning Team** | **ImplementAI Hackerthon** | **October 2017** |

- Selected from over 100 hackers, for predictive model on stock fluctuations using Reddit trends

| **1st Place, Research Expo** | **Douglas Mental Hospital** | **August 2017** |

- For work done on unsupervised learning application to medical imaging analysis

| **NSERC Research Award** | **Faculty of Medicine, McGill** | **April 2017** |

- Selected amongst a pool of competitive applicants for a $4500 summer research scholarship

Technologies

- Python, Shell Scripts, UNIX-based systems, Java, C, R, MATLAB, Keras, Anaconda