

Montreal, Canada  
+1 (514) 573-8333

# Anthony G.X. Chen

anthony.gx.chen@gmail.com  
<https://im-ant.github.io/>

## Experience

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**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

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**Cluster\_Stability\_Analyzer** **2017**

- Reduced space complexity from  $O(n^2)$  to  $O(n)$  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

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**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

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**Winner** **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

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