

Joseph Chen

jchen42703@gmail.com

<https://github.com/jchen42703>

Education

Queens High School for the Sciences at York College

Sept. 2016 to Present

All coursework is honors or AP; Grade point average: 102.83%

Honors and Awards

New York Science and Engineering Fair Second Award for Computer Science Research

March 2018

Con Edison Innovations in STEM Award

March 2018

Notable Projects

Capsule Networks for MRI Segmentation

June 2018-Present

- Independent, original research on applying 3D Capsule Networks for the automated segmentation of MRI Scans using the Medical Segmentation Decathlon dataset and Tensorflow, Keras, and Python 3.5.

The Automated Segmentation of Soft-Tissue Sarcoma using CNNs

June 2017-December 2017

- Independent, original research on the effect of the structure of a convolutional neural network on the accuracy of their soft-tissue sarcoma image segmentations using Tensorflow, Keras, and Python 3.5.

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Skills and Strengths

- Familiarity with the programming languages: Python and R
- Familiarity with the data science packages: Tensorflow, Keras, numpy, sklearn, pandas

Experience

QHSS Robotics: Team Spark

Fall 2017 to Present

Member

- Collaborate to assemble and program robots for competitions like VEX using RobotC

QHSS Team Cyber

Fall 2017 to Present

Member

- Participate in computer science activities, such as competing in the Google Code-in and learning programming languages (SQL)..