# Joseph Chen

jchen42703@gmail.com
GitHub; Kaggle; Personal Website

## Education

Queens High School for the Sciences at York College *Sept. 2016 to Present*
All coursework is honors or AP; Grade point average: 100.57%

## Honors and Awards

**New York Science and Engineering Fair Second Award for Computer Science Research**
*March 2018*
**Con Edison Innovations in STEM Award ($500)**
*March 2018*
**New York Science and Engineering Fair Third Award for Computer Science Research**
*March 2019*
**Junior Science and Humanities Symposia (JSHS) Finalist in the Computer Science**
*February 2019*
**Bronze Medal (171/2431) in the Severstal: Steel Defect Detection Challenge**
*October 2019*

## Research Experience

**A 2D U-Net for Automated Kidney and Renal Tumor Segmentation** **2019**
- Submission for the 2019 Kidney Tumor Segmentation Challenge

**Capsule Networks for the Automated Segmentation of Left Atrium in Cardiac MRI** **2018**
- Independent study evaluating the performance of 2D Capsule Networks for the automated segmentation of left atrium in cardiac MRI.

**The Automated Segmentation of Soft-Tissue Sarcoma using CNNs** **2017**
- Independent study on the effect of convolutional neural network architecture on automated soft-tissue sarcoma segmentation performance in CT scans.

## Publications

- Chen, J., & Jin, B. (2019). A 2D U-Net for Automated Kidney and Renal Tumor Segmentation. *2019 Kidney Tumor Segmentation Challenge: KiTS19*. doi: 10.24926/548719.089

## Skills and Strengths

- Confident in Python (Tensorflow, Keras, Pytorch, Catalyst, sklearn, pandas)
- Intermediate experience with HTML, CSS (Bootstrap), and JavaScript (React)
- Fluent in Chinese

## Additional Experience

**QHSS Team Cyber** *Fall 2017 to Present*
*President*

- Learning about web development (HTML, CSS, JS). Currently, leading the development of our own website and web-dev related projects.

**K-Pop Dance Club** *Fall 2017 to Present*

*Member*

- Work in teams to perform K-Pop dances in school events (school concerts and talent shows, Halloween parade)