# Evan Chugh

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## Research Interests

Biomedical applications of computer vision, financial forecasting, graphical rendering techniques using deep learning

## Education

**Canisius College** Buffalo, NY

- B.S. in Computer Science with a minor in Mathematics, expected May 2021

## Selected Coursework

- CSC 112 - Data Structures
- CSC 213 - Large Scale Programming
- CSC 253 - Computer Hardware
- CSC 281 - Automata and Algorithms
- MAT 219 - Linear Algebra

## Relevant Skills

- Python
  - Data manipulation: Pandas, NumPy, Scikit-learn
  - Data visualization: Matplotlib and Seaborn
  - Model building: Scikit-learn, Keras, TensorFlow
- Java/C++
  - Integration of data collection pipelines
  - Implementation of pre-trained machine learning models
- Full stack web development
  - Node.js: Express framework
  - MongoDB
  - MySQL

## Employment History

- Research Assistant Aug. 2018 - Present
- Tutor Aug. 2018 - Present

## Awards and Honors

- Canisius Earning Excellence Program, 2018
- Canisius Earning Excellence Program, 2019

## Research Grants

**2018 - Present (received at Canisius College)**

- Canisius Earning Excellence Program: “Artificial Intelligence in Electroskip”
    - Investigated the use of recurrent neural networks in creating real-time responses to human motion. Implemented a data collection system into the existing application pipeline. A study based on this work has shown moderate success in correcting the gait of patients with Parkinson’s Disease.

- “Applications of Convolutional Neural Networks in Echocardiogram Analysis”
    - Independently established a relationship between Canisius College and a local medical practice. Gained experience with IRB and HIPAA guidelines. Created a utility to scrub studies of PHI. Worked with doctors to label high risk indicators of heart disease, and created a model for screening future patients based on those studies.

## Undergraduate Research Experiences / Internships

- Canisius College / Northtowns Cardiology Summer 2019
    - “Applications of Convolutional Neural Networks in Echocardiogram Analysis”

## Presentations

- **“Artificial Intelligence in Electroskip”** April 2019

## References - Upon Request