

# EVAN WANG

evanzwang@gmail.com ◦ 240-704-5699

## EDUCATION

---

### University of Maryland, College Park

*Aug. 2021 - present*

President's Scholarship recipient (merit-based) w/ 4.0 GPA

#### Relevant Coursework:

- *Computer Science*: Object-Oriented Programming 1 & 2, Intro to Computer Systems, Discrete Structures
- *Math*: MV Calculus, Linear Algebra, Applied Statistics, Combinatorics and Graph Theory

### MBHS Science, Mathematics, and Computer Science Magnet Program

*Aug. 2017 - June 2021*

3.96 Unweighted GPA ◦ 4.76 Weighted GPA

#### Relevant Coursework:

- *Computer Science*: Algorithms and Data Structures A/B, Analysis of Algorithms, Computational Methods
- *Math*: MV Calculus, Diff. Eq., Statistics, Linear Algebra, Discrete Math

## RESEARCH EXPERIENCE AND PROJECTS

---

### Deep Reinforcement Learning on Connect Games

*July 2021 - present*

Developed an environment to train reinforcement learning models to play "connect" games like Five-in-a-Row and Connect-4. Initially based on a previous project (Deep-Q Learning for Connect-4) from Jan. 2020. The main approach was adapted from that of AlphaZero. The training environment was implemented in Python (NN using PyTorch). The interactive web UI was written in JavaScript.

### Self-Supervised Monocular Depth Estimation with Mr. Quinn Shen

*May 2020 - Oct. 2020*

Built a deep convolutional neural network architecture and training pipeline to take in a single image and predict a per-pixel depth map of that image. Expanded on previous research by studying the effects of different network architectures and color spaces.

### GU Medical Center: Internship with Dr. Albert J. Fornace Jr

*June 2019 - Aug. 2019*

Performed data analysis on lipidomic and transcriptomic data with Python, using raw data preprocessing techniques and machine learning classification algorithms like nearest shrunken centroids. Obtained hands-on experience with fundamental biological laboratory procedures, like cell culture techniques.

## SKILLS

---

### Fluent Languages

Python, Java, JavaScript, MATLAB, C++, R, C, (spoken) Mandarin

### Frameworks

OpenCV, NumPy, pandas, scikit-learn, Django, PyTorch

### Tools and Software

L<sup>A</sup>T<sub>E</sub>X, Unity, Windows, Linux

## AWARDS AND EXTRACURRICULAR ACTIVITIES

---

USACO Platinum division participant

*2019 - present*

Science Montgomery 2<sup>nd</sup> place (computer science category with monocular depth project)

*2021*

Montgomery Blair Computer Team captain

*2020 - 2021*

Montgomery Blair Informatics Tournament organizer

*2020 - 2021*