EDWARD SUN

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EDUCATION

University of Michigan, Ann Arbor *September 2018 - May 2021*
Computer Science and Math; ***EECS 442:*** *Computer Vision,* ***445:*** *Machine Learning* *GPA: 4.0/4*

Thomas Jefferson High School for Science and Technology *September 2014 - June 2018*
Computational Physics Research *GPA: 4.4/4*

RESEARCH

Towards Universal Evaluation of Image Annotation Interfaces
A.M. Vernier, J.Y. Song, **E. Sun**, A. Kench, W.S. Lasecki.
In *Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2019).*

PECAM
Cycle-consitent GAN for steganography in security *(Under review ACM MobiCom 2020).*

EMO
Fast and accurate emotion recognition on eyewear devices *(Under review ACM MobiCom 2020).*

User Anomaly Detection
Deep learning model for Android permissions control *(Under review IEEE DSC 2019).*

WORK EXPERIENCE

Amazon Web Services *May 2019 - August 2019*
Software Development Engineer Intern *Herndon, VA*

Artificial Intelligence Lab, University of Michigan *Dec 2018 - Present*
Research Assistant *Ann Arbor, MI*

State Key Laboratory of Novel Software Technology, NJU *June 2017 - Present*
Research Intern *Nanjing, China*

ACTIVITIES AND PROJECTS

· **University of Michigan Programming Team:** Competing in the International Collegiate Programming Contest (ICPC 2019).

· **Michigan Hackers:** Launched the React Native team to teach programmers mobile app development.

· **Real-Time Crowd Analytics with Group Emotion Recognition:** Achieved accuracies 21.17% higher than baseline and speeds 30× faster than VGG-Face LSTM models.

· **StockWise, MHacks 11:** Applied ML and sentiment analysis to create a stock market assistant that predicted price movement through TensorFlow and GCP. 1st place Goldman Sachs competition.

· **MIT Battlecode 2018:** Competed in a strategy contest where teams wrote AI combat, pathfinding, and communication algorithms. Quarterfinalist.

· **Large Band Gap Topological Insulators of Bi:** Modeled spin-orbit coupling in quantum spin hall effect of 2D bismuth TIs. Presented to visitors from international research institutions.

AWARDS

Siemens Competition Semifinalist *2016, 2017*
USA Computer Olympiad Gold Division *2017*
American Invitational Math Examination Qualifier *2015 - 2017*