

Shiye (Sally) Cao

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EDUCATION

Johns Hopkins University Whiting School of Engineering

Baltimore, MD

August 2018 – Present

◆ Double major in Computer Science & Applied Math

◆ Cumulative GPA: 3.29, Fall 2019 Dean's List

◆ Relevant Coursework:

Computer Vision, Machine Learning, Deep Learning, Intro to Data Science

Deep Learning for Medical Image Analysis, Introduction to Causal Inference

Calculus III, Linear Algebra, Differential Equations, Probability and Statistics for Physical Sciences

Gateway (Java), Data Structures, Intermediate (C and C++), Computer System Fundamentals

The Madeira School, McLean, VA

September 2014 – June 2018

◆ Cumulative GPA: 96.2/100, National AP Scholar

TECHNICAL & RESEARCH EXPERIENCES

Summer Research Intern, Suchi Saria Lab, JHU

May 2020-August 2020

Machine Learning and Causal Inference Related Research at the Saria Lab. Analyzed Electronic Healthcare Record data from hospitals. Worked to identify shifts in patient population and hospital policies over time. Worked to train models that are robust over these shifts and changes.

Research, JHU Malone Center for Engineering in Healthcare

August 2019 – Present

Group research under Dr. Anton Dahbura. Analyzed patient Electronic Healthcare Record data. Used machine learning and statistical techniques to analyze time-series patient data to look for trends between the frequency and timing of physical therapy and patient recovery.

DL Intern, Mech-Mind Robotics, Beijing, China

May 2019 – August 2019

Applied Deep Learning to industrial projects in Computer Vision; Researched generation of realistic synthetic data, generalizing models, transfer learning, visualization of convolutional networks (filter visualization), and image depth encoding; Awarded Outstanding Intern

Intern, Congressman Al Green's Office, Capitol Hill, D.C.

May 2017 – June 2017

Interned on Capitol Hill in Congressman Al Green's office for 5 weeks, answering phone calls, taking notes at briefings, drafting emails, and writing one-pagers on news issues

Research Assistant, Research Mentorship Program, Santa Barbara, CA

June 2016 – August 2016

Analyzed relationship between online news and movement of stock prices under a UCSB doctoral student mentor using R, linear regression, natural language processing (sentiment analysis), and text mining; presented research at formal university symposium and poster session and drafted a technical paper at the end of the program.

SKILLS: For my past projects please visit my GitHub: <https://github.com/Sally-14>

◆ Experienced with Machine Learning, Computer Vision, & Deep Learning (PyTorch and Tensorflow)

◆ Experienced in Python, Java, C, C++, R, LaTeX

◆ Experienced with Git and Linux Systems

◆ In my free time, I enjoy cooking, baking, swimming, and karate

◆ Member of SWE ++ Tutoring program (weekly Scratch/Python class for Baltimore middle schoolers)