

Andrew Hu

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Education

New York University, Tandon School of Engineering
(In progress) B.Sc. Computer Science, Math minor

Class of 2021

Experience

NYU Self Drive, Perception team lead (Fall 2019), Team captain (Spring 2020) *2019-2020*
Created an object detection labeling tool and collected/labeled a custom traffic sign dataset. Implemented object/lane detection models and stereo distance estimation algorithms for the annual Intelligent Ground Vehicle Competition (IGVC). Responsibilities include organizing team activities and teaching members about various computer vision and deep learning techniques.

Manifold Robotics, Computer vision intern *Summer 2019*
manifoldrobotics.com
Implemented and deployed semantic segmentation algorithms for shoreline detection in autonomous boats.

HackNYU, Backend developer *Spring 2018*
hacknyu.org
Handled student registration and sign-in, and organized demographics to send to sponsors.

Awards

HackMIT 2018 1st Place, IBM Call for Code Challenge *2018*
devpost.com/software/disaster-rescue-github-io
Built disaster damage prediction tool that creates prediction heatmaps using Tweets based on a combination of sentiment analysis and geolocation. Results closely resemble predictions by FEMA.

Projects

SignDet: Traffic Sign Detection Suite
github.com/andrewhu/signdet
Collection of methods, tips & tricks for object detection used by NYU Self Drive. Covers dataset collection, model selection, and deployment. Datasets and trained models are available.

CycleGANime: Automatic Linear Colorization with Cycle-Consistent Adversarial Networks
Demo: cycleganime.drew.hu — Code: github.com/andrewhu/CycleGANime
A minimal implementation of CycleGAN to perform manga-style linear colorization. See the supplementary blog post (blog.drew.hu/cycleganime) for dataset collection, implementation, and deployment details.

Visualizing the Urban Dictionary
Demo: visurb.drew.hu — Code: github.com/andrewhu/visurb
Interactive map visualizing the relationship between popular words according to their definitions on the Urban Dictionary. Embeddings are constructed with BERT and t-SNE, and plotted with D3.js.

Relevant coursework

DS203 Machine Learning for Language Understanding
CS4563 Machine Learning
CS4613 Artificial Intelligence