

## **HAO WANG**

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### **EDUCATION**

12/2020      Master of Science, Electrical Computer Engineering  
Georgia Institute of Technology, Atlanta, GA  
GPA: **4.0/4.0**

7/2019      Bachelor of Engineering, Automation  
Tianjin University, Tianjin, China  
GPA: **3.58/4.0**

### **Standardized English Test Results**

- GRE: 322 (Verbal:152 Quant: 170 Writing: 3.5)      Nov, 2018
- TOFEL: 102 (Reading:26    Listening:26    Speaking:23    Writing: 27) Oct, 2018

### **WORKS IN PROGRESS**

**Mental health outcome(Jun 2020 – Jan 2021)**

Have submitted to CSCW2021.

### **RESEARCH EXPERIENCE**

**Social and Language Technologies (SALT) lab**, Gatech, Atlanta

**Research Assistant, June 2020 – present**, advised by Diyi Yang

Analyzed people's mental health through social media data and text data.

Data mining, data cleaning, feature extraction and model building

**Institute of Robotics and Autonomous Systems**, Tianjin University, China

**Research Assistant, May 2018 – May 2019**, advised by Ming Zeng

Built image data set, preprocessed image data and implemented deep learning algorithms.

### **INTERNSHIP EXPERIENCE**

**Intelligence Racing**, San Ramon

**Teaching Assistant**, May 2020 – Aug 2020

Taught python scientific programming lab sessions and office hours.

Developed python course materials and released on GitHub.

## **SELECTED PROJECT**

### **Estimation, Comparison and Analysis of Yellow Taxi in NYC, Georgia Institute of Technology(Nov 2019)**

- Around 8 gigabyte data was used to train a LightGBM model to predict the taxi fare in NYC by pickup location and destination.
- An interactive user web page was built which can show the map of NYC by Google map and the price could be compute back-end.

### **Combination of Image Compression and Contrast Enhancement in Aerospace Application, Georgia Institute of Technology(Nov 2019)**

- Put forward a hybrid approach to improve the visual quality of images from satellites.
- DWT-SVD, combined Huffman coding and blocking effect reduction were implemented to improve traditional methods.

### **Bachelor's thesis, Tianjin University(May 2019)**

- Complex Text Detection on Garbage Image Data Set
- Implemented and improved Pixel-Link CNN which combines semantic segmentation and object detection on garbage image text data set. Prepare the data, improved Pixel-Link, test network and hyper-parameter tuning

### **Intelligent Garbage Identification and Sorting, Tianjin University(Nov 2018)**

- The project aims at designing a system to sort garbage by computer vision.
- A unique garbage image data which contain thousands of labeled image set was built and a CNN network is implemented.

## **HONORS&AWARDS**

Merit Student scholarship, Tianjin University(Sep 2018)

Top 15% in the Engineering department in 2017 academic year

Merit Student scholarship, Tianjin University(Sep 2017)

Top 15% in the Engineering department in 2016 academic year

Merit Student scholarship, Tianjin University(Sep 2016)

Top 15% in the Engineering department in 2015 academic year