

## **HAO WANG**

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### **EDUCATION**

- |         |  |
|---------|--|
| Present | Master of Science, Electrical Computer Engineering<br>Georgia Institute of Technology, Atlanta, GA<br>Expected graduation date: <b>12/2020</b><br>Cumulative GPA: <b>4.0/4.0</b> |
| 2019    | Bachelor of Engineering, Automation<br>Tianjin University, Tianjin, China<br>GPA: <b>3.58/4.0</b>  |

### **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 2019 – present)**

Will submit 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