

HAO WANG

(+1)470-263-3282

whao0419@gmail.com

EDUCATION

- | | |
|---------|---|
| Present | Master of Science, Electrical Computer Engineering Georgia Institute of Technology, Atlanta, GA Expected graduation date: 12/2020 Cumulative GPA: 4.0/4.0 Coursework: Statistical Machine learning, Deep learning for text data |
| 2019 | Bachelor of Engineering, Automation Tianjin University, Tianjin, China WES certified GPA: 3.77/4.0 Coursework: Image Processing Technologies, Database |

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

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, Oct 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.

WORKS IN PROGRESS

Mental health outcome(Jun 2019 – present)

Data Augmentation(Sep 2019 – present)

SELECTED PROJECT EXPERIENCE

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