

# Yiping Huang

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## EDUCATION

**BSc. Honours Data Science and Artificial Intelligence**  
Maastricht University

Maastricht, NL | Sept 2018 - Jun 2021

- GPA 9.0/10

**Coursework:** Data Structures and Algorithms; Machine Learning; Software Engineering; Simulation and Statistical Analysis; Parallel Programming; Large Scale IT and Cloud Computing

## WORK EXPERIENCE

**STATISTICS NETHERLANDS (CBS) | DATA SCIENTIST INTERN**

Heerlen, NL | Sept 2019 - June 2021

- Crawled and cleaned data from Dutch company websites.
- Conducted topic discovery with **LDA**, then extracted topic-aware keywords using **Text Rank**.
- Implemented novel **GNN** method for text classification

**SHANGHAI JIAOYU SOFTWARE CORPORATION | SOFTWARE ENGINEER (SE)**  
Aug 2018

Shanghai, CN | July 2016 -

- Developed school bus scheduling and management system for Shanghai Normal University using **Vue.js**, **Node.js** and **MySQL**.
- Developed front pages and dashboard for Kindergarten enrollment system of Hongkou district in Shanghai using **Vue.js**.
- Developed primary and middle school resource collection platform for Hongkou district using **Express**, **Mongodb** and **Node.js**.
- Developed HTML5 coursewares for Shanghai Open University using **Phaser.js**.

## PROJECTS

**BACHELOR THESIS** 

PYTORCH, SCIPY, TEXT CLASSIFICATION, GRAPH NEURAL NETWORK

A novel approach for text classification by treating document as subgraph. The model achieved s-o-t-a performance on benchmark datasets and is robust against noise in labels and small size of training set.

**SECURE MESSAGE APP** 

PYTHON, SOCKET PROGRAMMING, MESSAGE SECURITY

Coded socket based communication in C/S architecture. Encrypted message communications with server and between clients using **RSA** and **AES**.

**TRAJECTORY PLANNING SIMULATOR** 

JAVA, JAVA FX, NUMERICAL APPROXIMATION

Simulated celestial body movement using **RK4**. Used **PID** for spacecraft landing.

**IMAGE PROCESSING** 

MATLAB, IMAGE AND VIDEO PROCESSING

A series of projects for image transformation, noise filtering, morphological processing

**DRUM MACHINE** 

**RANDOM QUOTE GENERATOR** 

**MARKDOWN PREVIEWER** 

REACT.JS

Some short front-end demo projects serving as proof of concept

## SKILLS

**Languages:** Python, Java, Javascript, C(++), Matlab, Prolog, Bash, SQL

**Machine learning:** PyTorch, Pytorch Geometric, Captum, MXNet, Pandas, NumPy, Matplotlib, scikit-learn, Scipy, Spacy

**Web Development:** Vue.js, React, JavaScript, HTML/CSS, Bootstrap, JDBC, MyBatis, Django, Flask, Express

**Databases:** MySQL, MongoDB, Redis

**Technology:** Git, AWS, Docker, Apache,  $\text{\LaTeX}$

**High Performance Computing:** MPI, OpenMP

**Developer Tools:** IDEA, Eclipse, Navicat, PyCharm, VSCode, Jupyter notebook, Chrome Web Tool, Postman

## LANGUAGES

- English, Dutch, Chinese(mother tongue), Japanese