
EDUCATION

- **University of Science and Technology of China (USTC)** Hefei, Anhui, China
Undergraduate in Computer Science School of Computer Science and Technology *Sept. 2016 – Present*
 - **Major:** Member of Hua Xia Talent Program in Computer Science and Technology
 - **Overall GPA:** 3.66/4.30
 - **Major GPA:** 3.82/4.30
 - **Weighted Average:** 87.35/100
- **Shanghai Jiao Tong University (SJTU)** Shanghai, China
Exchange student in Computer Science *Feb. 2018 - Jun. 2018*
- **2018 AEARU Summer Campus in Peking University (PKU)** Beijing, China
Exchange student in Computer Science *July 2018*

RESEARCH

- **Research on Small Scale Object Recognition Based on Deep Neural Network** *Dec. 2018 – Present*
Advisor: Prof. Naijie Gu
 - **Background:** Object detection analyzes the category of objects and uses the bounding box to circle the specific position of the object in the image.
 - **Problem:** In the actual object occlusion and small object size problems, most models are weak.
 - **Main research contents:**
 - Positioning small-scale targets in images based on Faster RCNN
 - Quantifying the Anchor Scale in Faster RCNN
 - Biased fine-tuning training
 - Optimizing model performance with various training parameters and strategy choices
 - Finding small area candidate area proposal based on picture color features
 - Area similarity calculation based on color features
 - Small target candidate area generation
 - Computing multi-scale feature fusion and context information fusion based on convolutional neural networks
- **High quality dataset generation based on dataset quality assessment algorithm** *Dec. 2018 – Present*
Advisor: Prof. Lan Zhang

Generating high-quality data sets based on existing data quality assessment algorithms, including:

- Generating a data set that combines consistency and diversity and can be used to train the model.
- Adding and deleting operations for a given data set at a lower cost to improve the quality of the set.
- Sampling a high quality data set from multiple data sets as needed.
- Generating data set can be used to train the model by GAN.

COURSE PROJECTS

- **SDN simulated network based on mininet (Supervisor: Prof. Yanmin Zhu):**
Built a virtual SDN network based on mininet virtual machine and test execution of several Internet protocols.
- **Kaggle Competition Of Text Classification (Supervisor: Prof. Weinan ZHANG):**
Used machine learning algorithm to classify articles for a journal.
- **Kaggle Competition Of Link Prediction (Supervisor: Prof. Weinan ZHANG):**
Used Graph Embedding Algorithms to predict potential links in an academic network.
 - Used heuristic algorithms such as TransE.
 - Used Collaborative filtering to choose potential links.

- **Model of Graph Multi-task Learning (Supervisor: Prof. Jian Tang):**
Built a multi-task learning model based on graph data.
- **Basic Graph Database (Supervisor: Prof. Leonid Libkin):**
Basic building and usage graph database such as Neo4j.
- **User Portrait Analysis System Based on Sougou Search Engine History (Supervisor: Prof. Qi Liu):**
Analysed users' attributes like age, sex, education and etc according to users' search history on Sougou Search Engine.
- **C1 Language Compiler (Supervisor: Prof. Yu Zhang):**
Built compiler system for C-like language – C1 language using LLVM & Antlr4.
- **2018 CCF Big Data&Computational Intelligence Contest (BDCI) Competition (Supervisor: Prof. Qi Liu):**
Analyzed the user's preferences for the topic by mining topic and emotional information from the text content .
- **DBWorld Search Engine (Supervisor: Prof. Peiquan Jin):**
Built a Search Engine for DBWorld website.
 - Built Tomcat server in respond to JSP query.
 - Used entity recognition algorithm to support retrieval.
- **Erdős co-author network mining (Supervisor: Prof. Linli Xu):**
Used graph mining algorithm and community finding algorithm to find influential nodes and analyse community architecture in Erdős co-author network.
 - Influential analysis to find important authors.
 - Spectral clustering to analyse community structure in the network.

SELECTED AWARDS

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| • National Scholarship
<i>The scholarship for top students</i> | Oct. 2018 |
| • Scholarship in The Talent Program in Computer & Information Science
<i>For outstanding students selected to the talent program of computer science</i> | 2016, 2018 |
| • USTC's 60th Anniversary Celebration Activity Collection Contest Winner
<i>For Contributing students in anniversary celebration activity.</i> | Jan. 2018 |
| • Excellent Social Investigator
<i>For Contributing students in National Social Science Fund Project Research.</i> | Jan. 2018 |
| • Outstanding Student Scholarship (Silver)
<i>For top students in USTC</i> | Dec. 2017 |
| • Excellent Youth Communist
<i>For Contributing students in voluntary work and class activity.</i> | May 2017 |
| • Outstanding Student Scholarship (Bronze)
<i>For top students in USTC</i> | Dec. 2016 |

SELECTED EXTRA-CURRICULAR ACTIVITIES

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| • College Student Union Member & Leader
<i>Organized activities and in charge of outreach and equity work.</i> | Oct. 2016 – May. 2018 |
| • Class Psychology Committee
<i>Organized class activities and in charge of student psychology health care.</i> | Sept. 2016 – Dec. 2018 |

SKILLS

- **Programming Languages:** C/C++, Python, Java, Matlab, Verilog, HTML, JSP
- **Technologies :** L^AT_EX, Qt5 & Qt Creator4.8 , Tomcat, Git, OOP
- **Machine Learning Tools & Deep Learning Platforms:** scikit-learn, TensorFlow, Keras, Pytorch, Numpy & Pandas & Scipy & Matplotlib
- **English:** TOEFL IBT: 93 (R:27 L:25 W:21 S:20)