

Zhan Cheng

<https://enchanted23.github.io>
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Education

• UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA

Undergraduate

Hefei, China

2014 - now

- **Major:** Computer Science and Technology

Research Experiences

• English Chatbot Completion Using HRED Model

Summer Researcher

University of Waterloo

Jun. 2017 - Aug. 2017

- **Mentor:** Prof. Ming Li | <https://cs.uwaterloo.ca/~mli/>
- **Description:**
 1. Built and improved the Hierarchical Recurrent Encoder-Decoder (HRED) model for English chatbot referring to some papers and code.
 2. Collected tens of millions of data from different sources like twitter, reddit, movie dialog, etc to train the RNN model.
 3. Modified the code and the training sets repeatedly according to the performance of the chatbot until it achieved a desired result.

• Improving Humanoid Robot Jia Jia

Undergraduate Researcher

University of Science and Technology of China

July 2016 - now

- **Mentor:** Prof. Xiaoping Chen | <http://ai.ustc.edu.cn/en/people/xpchen.php>
- **Description:**
 1. Enhancing the robot's Chinese Conversation System to improve its performance of communicating with human beings.
 2. Applied machine learning algorithms to the Question Classification Model of Jia Jia.
 3. Doing some tasks like building a WeChat version of Jia Jia, labeling data, etc.

• Knowledge Base Completion Task

Undergraduate Researcher

University of Science and Technology of China

Sept. 2016 - now

- **Advisor:** Doctor Yi Zhou | Y.Zhou@westernsydney.edu.au
- **Description:**
 1. Analyzed traditional Knowledge Bases' deficiencies in solving Winograd Schema Challenge.
 2. Building and improving a Automated Knowledge Base Construction System referring to ProBase and DeepDive.
 3. Writing a paper about the things listed above.

Research Interests

Artificial Intelligence: Deep Learning, Natural Language Processing, Human-Robot Interaction
Machine Learning and Data Science, Knowledge Graph Construction

The others: Virtual Reality, Autonomous Vehicles, Social Network

Skills

- Programming and Markup Languages
 - **Adept:** Python, Java, C
 - **Intermediate:** MATLAB, HTML, JavaScript, \LaTeX
- Tasks
 - **Adept:** TensorFlow Programming, Web Crawling, Dialogue System Design
 - **Intermediate:** Visual Software Design, Web Design, Mobile Application Development