

Hongkai Zheng | Curriculum Vitae

Undergraduate, Department of Computer Science
Shanghai Jiao Tong University

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Research Interest

My research interests lie in the general area of machine learning, particularly in deep representation learning and reinforcement learning.

Education

Academic Qualifications.....

Shanghai Jiao Tong University

Shanghai, China

- Undergraduate student, Department of Computer Science Sep.2016–Now
- Zhiyuan Honors Program of Engineering (an elite program for top 5% talented students)

Research Experience.....

- **Object Detection in Crowded Scenes** Sep.2018–now

Research Assistant, supervised by Professor Bingbing Ni(EE department, SJTU)

Description: This study focuses on detecting objects in the crowded scenes in a deep learning method. we are working on proposing a novel architecture for detecting objects more efficiently in the congested scenes.

- **Intelligent Robotic oil painting system** Nov.2018–now

Research Assistant, supervised by Professor Bingbing Ni(EE department, SJTU)

Description: This project is working on designing a machine that can intelligently reproduce an image in an original artistic style. The generative model generates the stroke sequence for the robotic system and the machine produces the painting.

Selected Course Project.....

- **Learning Treatment Strategy from Tooth Point Cloud Data** Nov.2018–Dec.2018

Description: Proposed three deep network models to extract spatial feature. Applied multi-task learning based on shared representation to predict orthodontic steps count, attachment type, and attachment position for orthodontic treatment.

- **Positive and Negative Sentiment Analysis** Dec.2018–now

Description: Proposed a hierarchical architecture with CNN-based attention mechanism to do sentiment classification.

Honors And Awards

- **Academic Excellence Scholarship(Second-Class)**

Shanghai Jiao Tong University

2016-2017 & 2017-2018 academic years

- **Zhiyuan College Honors Scholarship**
Top 5%, Shanghai Jiao Tong University *2016-2017 & 2017-2018 academic years*
- **Honorable Mention Prize of Mathematical Contest in Modeling**
held in USA *2018*
- **Second-Class Prize of National College Students Mathematical Competition**
Shanghai *2017*
- **MicroPort Undergraduate Scholarship**
Shanghai Jiao Tong University *2016-2017 academic year*
- **Second-Class Prize**
National College Students Mathematical Competition(Shanghai, China) *2017*
- **First-Class Prize**
National High School Mathematics League Competition(Zhejiang, China) *2015*

Skills

- **Programming Languages:** C/C++, Python(Pytorch, tensorflow), Java, Matlab
- **Software:** LaTeX, CPLEX, Solidworks