HAICANG ZHOU

Building No. 1, 1433 Cailun Road, Pudong New District, Shanghai, China, 201210

(+86)15802139607 ⋄ haicang.zhou@outlook.com ⋄ haicang.github.io

EDUCATION

Fudan University Shanghai, China
B.S. in Computer Science *Jul. 2017 - Present*
- Overall GPA: 3.69/4.0 (Rank: 14/155); Major GPA: 3.81
- Selected into the honor program (around top 40 from more than 150 students)

Electronic Engineering, major changed *Sep. 2015 – Jun. 2017*

SELECTED AWARDS & PRIZES

Outstanding Student Leaders at Fudan University (1.5%)	*2019*
Second Prize of the Scholarship for Outstanding Students (top 10%)	*2019*
First Price, Chinese Undergraduate Mathematical Contest in Modelling (top 10%)	*2018*
Tung OOCL Scholars (top 5%)	*2017*
Third Prize, Fudan Collegiate Programming Contest	*2017*
ELITE, LIU YONG L Scholarship (top 5%)	*2016*
Outstanding Students at Fudan University (top 10%)	*2016*

RESEARCH EXPERIENCE

Disentangled Representation Learning *Jul. 2019 - Present*
Advisor: Tong Zhang, Chair Professor, HKUST
- This project aims at designing novel methods for disentangled representation learning.
- Utilized generative models, like GAN, VAE and their variants.
- Preliminary experiments are finished on Image Translation task, with Inference GAN architecture. The best model of Inference GAN is selected and some enhancements are achieved based on the state-of-the-art (5% - 10% gain in IS and FID).
- Critical vulnerabilities are found in all the existing methods, and more fundamental theories are under investigation.

Logo Retrieval *Oct. 2018 - Dec. 2018*
Advisor: Yun Xiong, Professor, Shanghai Key Laboratory of Data Science, Fudan University
- Aiming to achieve high accuracy retrieval on logo datasets.
- Utilized a novel unsupervised method based on generative models, Conv-net and Transfer Learning to extract features from logo images. (Unsupervised method has never been used on this problem that time.)
- The unsupervised method surpasses previous supervised methods, with 2.3% gain on trademark dataset, and it is effective on our real world dataset where the supervised methods fail.
- This project is sold to a company.

Storyline Mining *Jul. 2017 - Sep. 2017*
Advisor: Yun Xiong, Professor, Shanghai Key Laboratory of Data Science, Fudan University
- This project aims at extracting information from social media and construct storylines, a series of related things listed chronologically.
- Used Bayesian Networks and NER to extract features.
- More than 10% gain on accuracy and F1 score.

MISC EXPERIENCE

Teaching assistant of Introduction to Computer System course (Fall 2018) at Fudan.
Attended several competitions in CS, Math Modeling and Finance, as the *team leader*.
Led a group to develop an APP for learning ancient Chinese literature.
Given lectures to a minority middle school students, who are said to be addicted to computer.

SKILLS

Programming Languages: Python, C/C++, Java, Julia, matlab
Tools: Linux; Scipy Toolkit, sklearn, PyTorch
Languages: Chinese (Native), English(TOEFL iBT 100[Speaking 22], GRE 320)