## **Haojie Pan**

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Github: <a href="https://github.com/ScarletPan">https://github.com/ScarletPan</a>
<a href="https://scarletpan.github.io">https://scarletpan.github.io</a>

**INTERESTS** Text Mining, Natural Language Processing, Machine Learning

**EDUCATION** Zhejiang University, Hangzhou, Zhejiang, China, 2014-present

B.E., Major in Computer Science (Overall GPA: 3.95/4.0, Rank: 3/137)

Enrolled in He Class, a special pilot CS program led by Prof. Zhijun He for talented students

Undergraduate Advisor: Prof. Deng Cai

**EXPERIENCE** 2017 Natrual Language Processing Intern in Netease Game AI lab.

2017 Research Assistant in KnowComp Group@HKUST. Prof. Yangqiu Song
 2016 Research Assistant in State Key Laboratory of CAD&CG@ZJU. Prof. Deng Cai

**PROJECTS** 2017 NIST: LoReHLT Evaluation(Situation Frame) (Site)

NIST's Low Resource human language technologies (LoReHLT) evaluation series aims to advance HLT that
can provide rapid and effective response to emerging incidents where the language resources are limited.

My work almost doubles our final results of one evaluation.

2017 Kaggle: Rental Listing Inquiries(solo, Silver medal) (Code) (Profile)

- Kaggle, the most authoritative data-mining competition around the world.
- Task is to predict houses' interest level. During these three months, my work includes data cleaning, feature engineering, model selecting, parameter tuning, model ensembling.

2016 Visual Question Answering (Code) (Video)

- A project about automatically generating answers for questions related to images, based on deep learning.
- As a leader, I took part in handling text features with Glove word vectors and building models with LSTM
  using tensorflow Network and running experiments compared with some baselines.
- Patent of invention, Software Copyright, Awards, etc.

2016 Sentiment Analysis (Code) (Pdf)

- A project comparing Bag-Of-Words model with Word Vector clustering model to classify the sentiment of a movie review.
- In the BOW model, I also compared word frequency with chi-square test for feature selection, and compare term frequency(TF) with term frequency- inverse document frequency(TF-IDF) for weighting scheme.

## **Publications**

2017 Stephen Mayhew, Chase Duncan, Mark Sammons, Mark Sammons, Chen-Tse Tsai, Xin Li, **Haojie Pan**, Sheng Zhou, Jennifer Zou, Yangqiu Song, Dan Roth. Illinois CCG LoReHLT 2017 Named Entity Recognition and Situation Frame Systems. LoReHLT. 2017 (Pdf)

2017 **Haojie Pan**, Yang Liu, Junpei Zhou, Jialin Lu, Method for Constructing Visual Question Answering System for the Disabled. Patent of mainland China, NO. 201710128118.6

AWARDS &	
PRIZES	

2015 2016

2013-2016	Frootheili Government Scholarship
2015-2016	Ali New Media Scholarship
2015-2016	Excellent All-around Student
2014-2016	First-Class Scholarship for Outstanding Students

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**COURSES** Artificial Intel

*Artificial Intelligence* (97/100, A+)

Probability & Statistics (98/100, A+)

The Basic of Data Structure (98/100, A+)

Data Visualization (97/100, A+)

Database System (95/100, A+)

Numerical Analysis (95/100, A+)

Introduction to Data Mining (93/100, A)

*Network Security Theory and Practice* (96/100, A+)

Compiler Principle (98/100, A+)

Computer Organization (95/100, A+)

The C programming language (96/100, A+)

University Physics (A) I (99/100, A+)

*Calculus III* (95/100, A+)