# Peidong Liu

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## ·Education·

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|---|---|
| *09/2015~present* | **Sun Yat-sen University (SYSU), School of Data and Computer Science, Junior Student** |
| | **Major**: Software Engineering; **Overall GPA**: 3.9/4.0; **Ranking**: 3/119 (Top 3%) |
| *01/2018~05/2018* | **National University of Singapore(NUS), School of Computing, Exchange Student** |

## ·Awards·

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| *10/2017* | Bronze Award in Intel Cup-Parallel Application Challenge (PAC), China (Top 6%) |
| *10/2017* | First Class Scholarship of Sun Yat-Sen University (Top 5%) |
| *04/2017* | Third Prize in Accenture Cup-Software Innovation and Development Competition (Top 6%) |
| *01/2017* | Honorable Mention in Interdisciplinary Contest in Modeling |
| *10/2016* | First Class Scholarship of Sun Yat-Sen University (Top 5%) |

## ·Research and Teaching Experiences·

*10/2017~present*    **Smart Mobile Computing Lab, SYSU**      **Research Assistant**

Mentor: **Xu Chen** (Professor, School of Data and Computer Science, SYSU)

- Engaged in modeling the prediction of the information growth, especially in WeChat Moment
- Performed a number of experiments, such as analyzing raw data more than 30GB on WeChat Moment through data mining methods as well as graphing illustrations like Information Diffusion~Time graph

*03/2018~05/2018*    **NUS-Tsinghua Center for Extreme Search(NExT++), NUS**      **Research Assistant**

Mentor: **Chua Tat-Seng** (KITHCT Chair Professor, Founding Dean of the School of Computing, NUS)

- Implemented an algorithm for food classification with complex names using NLP
- Crawled images from google which were used for food image recognition

*07/2017~10/2017*    **NLP Group, Guangdong Province Key Lab of Computational Science, SYSU**    **Research Assistant**

Mentor: **Yao Lu** (Professor, School of Data and Computer Science, SYSU)

- Participated in text mining of medical scientific literature, including preprocessing, word vector representation with word2vec, vector dimensionality reduction with PCA model, keywords obtained via TF-IDF model, topic number analysis via AP model and article topics obtained via LDA model
- Realized parallelization with Spark
- Drew lifecycle diagram of literature and predicted lifecycle

*03/2017~06/2017*    **Research Group of School of Government, SYSU**      **Team Leader**

Mentor: **Zijie Shao** (Associate Researcher, School of Government, SYSU)

- Designed web crawler program with Python for data collection of Weibo users' reposts and comments
- Analyzed Weibo information spread modes through text analysis and data mining
- Built server with Tomcat to store videos for online surveys

*03/2017~07/2017*    **Programming in High Level Language (C++), SYSU**      **Teaching Assistant**

- Gave a short lecture in the lab class, helped students with C++ problems and corrected homework

## ·Competition and Extracurricular Experiences·

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| *10/2017* | **Bronze Award in Intel Cup-Parallel Application Challenge (PAC), China** | **Team Member** |
| *01/2017* | **Interdisciplinary Contest in Modeling** | **Team Leader** |
| *03/2016~09/2016* | **Organizing Committee, AIESEC in SYSU, Guangzhou** | **Member** |
| *11/2015~01/2016* | **Student's Software Technology Development Center of SYSU** | **Manager** |

## ·Computer Skills·

**Programming Languages**: C; C++; Python; Java; Scala; R; Html; Css; Javascript; Nodejs; Angularjs

**Database**: SQL; MongoDB

**Others**: MapReduce (Spark); Matlab