

Peidong Liu

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Education

- 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

- 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

- 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; Tensorflow