

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**

Publications

1. C. Li, Y. Lu, J. Wu, Y. Zhang, Z. Xia, T. Wang, D. Yu, X. Chen, **P. Liu**, and J. Guo. LDA Meets Word2Vec: A Novel Model for Academic Abstract Clustering. In The 2018 Web Conference Companion (WWW 2018) [pdf]

Awards

- 10/2017 Bronze Award in Intel Cup-Parallel Application Challenge (PAC), China (Top 6%)
- 01/2017 Honorable Mention in Interdisciplinary Contest in Modeling
- 2016-2017 First Class Scholarship of Sun Yat-Sen University (Top 3%)

Research and Teaching Experiences

- 06/2018~08/2018 **Institute of Information System and Engineering, School of Software, THU** **Research Assistant**
Mentor: **Chunping Li** (Associate Professor, School of Software, THU)
 - Implemented the code of several common topic models in NLP area like LDA, GSDMM, HLDA, CTM
 - Analyzed Weibo data through topic models above and performed experiments
- 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)
 - Designed 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
- 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
- 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**

Computer Skills

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

Others: SQL; MongoDB; MapReduce (Spark); Matlab; Tensorflow