

# Peidong Liu

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## · Education ·

- 09/2019 till now **Tsinghua University (THU), Department of Computer Science and Technology, Master**
- 09/2015~06/2019 **Sun Yat-sen University (SYSU), School of Data and Computer Science, Bachelor**  
**Major:** Software Engineering; **Overall GPA:** 3.9/4.0; **Ranking:** 2/119 (Top 2%)
- 01/2018~05/2018 **National University of Singapore (NUS), School of Computing, Exchange Student**

## · Publications ·

- **P. Liu**, Xiyu Yan, Yong Jiang, Shu-Tao Xia. Deep Flow Collaborative Network for Online Visual Tracking. *ICASSP2020*. [pdf]
- 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. *WWW2018*. [pdf]
- **P. Liu\***, Yiming Li\*, Yong Jiang, Shu-Tao Xia. Visual Privacy Protection via Mapping Distortion. arXiv preprint arXiv: 1911.01769. [pdf]

## · Awards ·

- 06/2019 Graduate with Honors at Sun Yat-Sen University
- 12/2018 Exchange Student Scholarship of Sun Yat-Sen University
- 10/2017 Bronze Award in Intel Cup-Parallel Application Challenge, China **Team Member**
- 01/2017 Honorable Mention in Interdisciplinary Contest in Modeling **Team Leader**
- 2016-2017 First Class Scholarship of Sun Yat-Sen University in two consecutive years

## · Research Experiences ·

- 07/2019~09/2019 **Y-Tech AI Lab, Beijing Kuaishou Technology Ltd.** **AI Intern**
  - Improved face parsing task with landmarks by around 2% in accuracy on baseline model UNet
- 11/2018~06/2019 **Fundamental Technique Research Group, SenseTime Research** **Research Intern**  
Mentor: **LiTong Feng** (Ph.D., Senior Researcher, SenseTime)
  - Solely responsible for building the entire pipeline for converting Pytorch models to Caffe models, including models for classification (Resnet, Inception Resnet series) and Object Detection (SSD, Faster Rcn, etc).
- 03/2018~05/2018 **NUS-Tsinghua Center for Extreme Search(NExT++), NUS** **Research Assistant**  
Mentor: **ZhaoYan Ming** (Ph.D., Team Head, NExT++)
  - Designed an algorithm for food classification with complex names using NLP
- 10/2017~02/2018 **Smart Mobile Computing Lab, SYSU** **Research Assistant**  
Mentor: **Xu Chen** (Professor, School of Data and Computer Science, SYSU)
  - Engaged in modeling 30GB articles of WeChat Moment with effective structural features
  - Applied models like Logistic Regression, Random Forest and GBDT to predict the information growth
- 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 analysis and text mining of medical scientific literature, including preprocessing, word vector representation with Word2Vec, vector dimension reduction with PCA, keywords obtained via TF-IDF, topic number analysis via AP algorithm and article topics obtained via LDA
  - Realized parallelization with Spark

## · Computer Skills ·

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

**Others:** SQL; MongoDB; Spark; Matlab; Pytorch; Caffe; Tensorrt; Docker; Onnx