

Jinkun Lin

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EDUCATION

Tsinghua University, China

Beijing, China

- *B.Eng. in Computer Science and Technology*

2015.AUG - 2019.JUL (expected)

GPA: 3.74/4.00; Rank: 21/140

RESEARCH INTERESTS

Computer Systems, Distributed and Parallel Computing, Programming Language.

AWARDS & HONORS

- KDD Cup 2018 Honorable Prize (8th place) 2018
- Zheng Geru Scholarship (3 Times) 2015-2017
- Freshmen Scholarship Second Prize 2015
- The 31st China's National Olympiad in Informatics Gold Medal 2014

RESEARCH & WORK EXPERIENCE

ALCHEM Lab, University of Southern California

Los Angeles, USA

- Research Intern, *Distributed Machine Learning*

2018.Jul-2018.Sep

Advisor: Prof. [Xuehai Qian](#)

- Implemented a **heterogeneity-aware decentralized** training system using **TensorFlow**.

Beijing SenseTime Technology Development Co., Ltd

Beijing, China

- Research Intern, *Computer Vision, Deep Learning, Optical Character Recognition*

2017.Jul-2017.Sep

Advisor: Ding Liang

- Designed a **ray-tracing**-based and **GAN**-based algorithm to **synthesize** training data containing rare characters, resulting in a significant improvement on the recognition accuracy.

Graphics and Geometric Computing Lab, Tsinghua University

Beijing, China

- Research Assistant, *Image and Video Processing, Machine Learning*

2016.Sep-2018.Jan

Advisor: Prof. [Shimin Hu](#)

- **BiggerSelfie**: Designed a GMM-based method to extract the foreground portrait from a selfie video.
- **Video Stabilization**: Worked on designing the first **deep learning** solution for online video stabilization.

PROJECTS

- **Toy CPU** 2017
Hardware interrupt, branch prediction, Flappy Bird in assembly upon the CPU, VGA, VHDL, five-stage pipeline.
- **Virtual Guitar** 2017
Guitar application on **FPGA**, using Bluetooth and PS/2 for communication with keyboard and cellphone.
Keyboard for guitar player's right hand; Specially designed **iOS** application for left hand.

PUBLICATIONS

- (Under review)
*Qinyi Luo, **Jin-Kun Lin**, Youwei Zhuo, Xuehai Qian*
Submitted to **ASPLOS2019**.
- (Pre-print) **Deep Online Video Stabilization**
*Miao Wang, Guo-Ye Yang, **Jin-Kun Lin**, Shao-Ping Lu, Ariel Shamir, and Shi-Min Hu*
arXiv, 1802.08091, 2018.
- **BiggerSelfie: Selfie Video Expansion with Hand-held Camera**
*Miao Wang, Ariel Shamir, Guo-Ye Yang, **Jin-Kun Lin**, Guo-Wei Yang, Shao-Ping Lu, and Shi-Min Hu*
IEEE Transactions on Image Processing, 2018.

PROGRAMMING SKILLS

- **Languages:** C/C++, python, VHDL, javascript, java, matlab
- **PLATFORMS & TOOLS:** TENSORFLOW, PyTorch, OpenCV, Caffe, Emacs, React, QT

TEACHING EXPERIENCE

Undergraduate TA for Fundamentals of Programming (Fall 2015), Tsinghua University