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

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, **JinKun 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