

EDUCATION

- **Tsinghua University** Beijing, China
B.E. in Electronic Information Science and Technology; GPA: 3.62 *Aug. 2015 – June. 2019*
- **University of Southern California** Los Angeles, CA
Ph.D. in Computer Science *Aug. 2019 – May. 2024 (expected)*

SKILLS

- **Programming Skills:** C/C++, MATLAB, Python, Git, Matlab, Verilog
- **Deep Learning Frameworks:** Caffe, PyTorch, TensorFlow, Keras

MANUSCRIPTS

- Yueqi Duan, Haidong Zhu, Chaojian Li, Jiwen Lu, and Jie Zhou, **Unsupervised 3D Feature Learning via Point Cloud Completion**, *Under review*
- Haidong Zhu, Jialin Shi, and Ji Wu, **Pick-and-Learn: Automatic Quality Evaluation for Noisy-Labeled Image Segmentation**, *Intl. Conf. on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2019*
- Brian Matejek, Daniel Haehn, Haidong Zhu, Donglai Wei, Toufiq Parag, and Hanspeter Pfister, **Biologically Constrained Graphs for Global Connectomics Reconstruction**, *IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2019*.

RESEARCH PROJECTS

- **i-Vision Group**, Tsinghua University Beijing, China
Advisor: Prof. Jiwen Lu *Feb. 2018 - present*
 - **Metric Learning:** Employed hardness-aware strategy to improve efficiency and result of metric learning
 - **3D Vision:** Investigated point cloud completion and autoencoder framework for 3D reconstruction task
 - **Self-supervised Learning:** Employed self-supervision strategy as pretext for 3D point cloud classification
- **Visual Computing Group**, Harvard University Cambridge, MA
Advisor: Prof. Hanspeter Pfister *Jun. 2018 - Sept. 2018*
 - **3D segmentation:** Improved the 3D segmentation pipeline for connectomic projects and generated state-of-the-art result on the same quality of affinities compared with present methods, got 3rd place on SNEMI3D public dataset
 - **Graphs Reconstruction:** Set up graph improvement step for error correction in connectomic segmentation
- **Information Cognition and Intelligent System Lab**, Tsinghua University Beijing, China
Advisor: Prof. Jiansheng Chen *Jun. 2017 - Jan. 2018*
 - **Liveness Detection System:** Embedded the liveness detection strategy on mobile chips and systems
 - **Big Data System:** Set up the human identity system for huge information management and relation prediction
 - **Image Caption:** Studied the overfitting cases in image captioning models

PROJECTS

- **Structural Relational Reasoning for Point Clouds:** Introduced structural relational network (SRN) for reasoning
- **Competition and Lecture Management System:** Lecture management system with wechat and website version
- **Video-audio Similarity Evaluation System:** Evaluating similarity between given audio and visual fragments
- **Online Big Data Face Recognition System:** Real time face recognition with big data management

AWARDS AND HONORS

Scholarship for Academic Excellence	2018
3rd Place in SNEMI3D Challenge	2018
Scholarship for Social Practice Excellence	2016/2017
Scholarship for Voluntary and Public Excellence	2016
2nd Prize in Tsinghua Volunteer Activity	2016