

EDUCATION

- **Tsinghua University** Beijing, China
B.E. in Electronic Information Science and Technology
GPA: 3.70 Aug. 2015 – June. 2019
- **University of Southern California** Los Angeles, CA
M.S. in Computer Science
GPA: - Aug. 2019 – May. 2021 (expected)
- **University of Southern California** Los Angeles, CA
Ph.D. in Computer Science
Advisor: Prof. Ram Nevatia Aug. 2019 – Dec. 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*, accepted.
- 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), pp. 2089-2098, 2019*.

RESEARCH PROJECTS

- **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.
- **Multimedia Signal Processing Lab**, Tsinghua University Beijing, China
Advisor: Prof. Ji Wu Feb. 2018 - Apr. 2019
 - **Noisy-labeled Image Segmentation:** Improved the performance of pixel-wise segmentation network while part of training samples are noisy-labeled.
 - **Meta Learning:** Introduced meta-learning methods for assessing the quality of the input image w/o annotations.
- **i-Vision Group**, Tsinghua University Beijing, China
Advisor: Associate Prof. Jiwen Lu Feb. 2018 - Apr. 2019
 - **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.
- **Information Cognition and Intelligent System Lab**, Tsinghua University Beijing, China
Advisor: Associate 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 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

| | |
|--|-----------|
| Outstanding Undergrad Thesis | 2019 |
| 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 |