Chufeng **Tang**

Fourth-year Ph.D. Student · Tsinghua University

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Education

Tsinghua University (THU) — *Beijing, China*

Ph.D. Student Department of Computer Science and Technology — *2018/09 – 2023/06 (Expected)*

- Advisor: Prof. Xiaolin Hu
- TSAIL Group (directed by Prof. Bo Zhang and Prof. Jun Zhu)
- Research interests: deep learning and computer vision, especially on instance-level detection/segmentation, language-driven visual recognition, AI for (biomedical) science, brain-inspired AI, etc.

Huazhong University of Science and Technology (HUST) — *Wuhan, China*

B.E. School of Computer Science and Technology — *2014/09 – 2018/06*

- GPA: 3.97/4.0 Grade: 90.4/100 Rank: 4/260
- Thesis: Attribute Recognition with Multi-task Learning (Outstanding Bachelor Thesis)

Publications

Visual Recognition by Request — *Under Review (2022)*

Chufeng Tang, Lingxi Xie, Xiaopeng Zhang, Xiaolin Hu, Qi Tian

Focal Distillation from High-Resolution Data to Low-Resolution Data for 3D Object Detection — *Under Review (2022)*

Jiawei Shan, Gang Zhang, **Chufeng Tang**, Hujie Pan, Qiankun Yu, Guanhao Wu, Xiaolin Hu

Improving Image Segmentation with Boundary Patch Refinement — *IJCV 2022*

Xiaolin Hu†, **Chufeng Tang**, Hang Chen, Xiao Li, Jianmin Li, Zhaoxiang Zhang — *(Impact Factor: 13.37)*

(Chufeng Tang is the **first student author** after the supervisor)

Active Pointly-Supervised Instance Segmentation — *ECCV 2022*

Chufeng Tang, Lingxi Xie, Gang Zhang, Xiaopeng Zhang, Qi Tian†, Xiaolin Hu† — *Tel Aviv, Israel*

Look Closer to Segment Better: Boundary Patch Refinement for Instance Segmentation — *CVPR 2021*

Chufeng Tang*, Hang Chen*, Xiao Li, Jianmin Li, Zhaoxiang Zhang, Xiaolin Hu† — *VIRTUAL*

Improving Pedestrian Attribute Recognition With Weakly-Supervised Multi-Scale Attribute-Specific Localization — *ICCV 2019*

Chufeng Tang, Lu Sheng, Zhaoxiang Zhang, Xiaolin Hu† — *Seoul, Korea*

Projects

Automated Large-Scale 3D Neuron Reconstruction with Deep Learning — *Beijing, China*

AI for Biomedical Science — *2021/06 – Present*

- Goal: identifying brain-wide neural connectivity/morphology from optical microscopy images.
- Key technical problems: neural signal segmentation (distinguish all axonal processes from background), neuron tracing (trace individual segments into a compact neuron), etc.
- An interdisciplinary research project, cooperated with Prof. Zengcai Guo and Prof. Song-Hai Shi at the IDG/McGovern Institute for Brain Research, Tsinghua University.

Experience

Huawei Technologies Co., Ltd. *Beijing, China*

Research Intern *2020/09 - Present*

- Advisor: Prof. Qi Tian and Dr. Lingxi Xie
- Research topics: detection/segmentation, language-driven visual recognition, label-efficient learning, etc.

SenseTime Group Inc. *Beijing, China*

Research Intern *2017/08 - 2018/07*

- Advisor: Dr. Jing Shao
- Research topics: pedestrian attribute recognition, intelligent surveillance, multi-task learning, continual learning, etc.

Tsinghua University *Beijing, China*

Teaching Assistant *2018, 2019, 2020*

- 2018 Fall. **Introduction to Deep Learning** (THU-00240332), instructed by Prof. Xiaolin Hu
- 2019 Summer. **Tsinghua University Deep Learning 2019 Summer School**
- 2019 Fall. **Introduction to Deep Learning** (THU-00240332), instructed by Prof. Xiaolin Hu
- 2020 Spring. **Deep Learning** (THU-80240743), instructed by Prof. Xiaolin Hu and Prof. Jun Zhu
- 2020 Fall. **Neural and Cognitive Computation** (THU-80240642), instructed by Prof. Xiaolin Hu

Honors & Awards

2018	**Outstanding Bachelor Thesis Award**, Huazhong University of Science and Technology	*Wuhan, China*
2018	**Outstanding Graduates**, Huazhong University of Science and Technology	*Wuhan, China*
2017	**National Scholarship**, Ministry of Education	*China*
2017	**Outstanding Undergraduate Award**, China Computer Federation (CCF)	*China*
2017	**Gold Award**, The CCF Collegiate Computer Systems & Programming Contest (CCF-CCSP)	*Beijing, China*
2016	**Bronze Medal**, The 2016 ACM-ICPC Asia Qingdao Regional Contest	*Qingdao, China*
2016	**National Endeavor Scholarship**, Ministry of Education	*China*
2015	**Bronze Medal**, The 2015 ACM-ICPC Asia Hefei Regional Contest	*Hefei, China*
2015	**Merit Student**, Huazhong University of Science and Technology	*Wuhan, China*

Skills

Programming	Python, C/C++, Cuda, Matlab, LaTeX
Deep Learning Tools	PyTorch, Caffe
Platform	Mac OSX, Linux, Windows
Languages	English(Fluent), Mandarin(Native speaker)