Yun Chen

✉ i@knew.be · % https://tmux.top · ⊙ chenyuntc · ☎ (+1) 647-869-3455

🎓 Education

Beijing University of Posts and Telecommunications (BUPT)　　　　　　2012 – 2019
- B.S. Member of *Ye Peida Class*, Beijing Outstanding Graduates Honor.
- M.S. Member of *Pattern Recognition and Intelligent System Lab*, School of Artificial Intelligence.

👥 Experience

Uber Inc. ATG R&D　　　　　　　　　　　　　　　　　　　　Sep. 2018 – present

AI Resident → Research Scientist　Autonomous Vehicle, Computer Vision
- Working with Prof. Raquel Urtasun on various tasks for self-driving systems and 3D world.
- **3D Perception**: 3D detection, tracking, and segmentation with multi-sensor and map data. Fast, effective and efficient. New **SOTA** in KITTI and nuScenes.
- **Depth Completion**: Densify LiDAR with image guidance, **SOTA** in KITTI without external data.
- **3D Reconstruction** in the wild: Recover mesh and texture using unlabeled temporal multi-sensor data.
- **Map**: Learning map structure with Graph Neural Network. New **SOTA** in Argoverse motion forecasting.

Alibaba Inc. Machine Intelligence Group in DAMO Academy　　　Mar. 2018 – Jun. 2018

Research Intern　Medical Image Analysis, Artificial Intelligence
- The **FIRST** 3D R-CNN for CT/MRI, faster and more accurate than radiologist. One patent (first author).
- Weakly-supervised learning with limited labels and active learning for efficient labelling.

Github ⊙ chenyuntc　　　　　　　　　　　　　　　　　　　Dec. 2014 – present

Passionate Developer, Maintainer, Contributor.　**10K star, 3K fork, 1.5K followers**
- *simple-faster-rcnn-PyTorch*: The **FIRST** pure PyTorch Faster R-CNN implementation. Faster and Better.
- *PyTorch-book*: PyTorch projects like anime generation, neural style, image caption and audio processing.

📕 Publications

- Object Trajectory Evolution for End-to-End Perception and Prediction. *CVPR 2020*
  M. Liang, B. Yang, W. Zeng, **Y. Chen** et.al
- Learning Joint 2D-3D Representations for Depth Completion. *ICCV 2019*
  Y. Chen, B. Yang, M. Liang and R. Urtasun (*SOTA results in KITTI depth completion.*)
- Multi-Task Multi-Sensor Fusion for 3D Object Detection. *CVPR 2019*
  M. Liang, B. Yang, **Y. Chen**, R. Hu and R. Urtasun (*SOTA results in KITTI 3D/BEV detection.*)
- Volume R-CNN: Unified Framework for CT Object Detection and Instance Segmentation. *ISBI 2019*
  Y. Chen, J. Chen, B. Xiao, Z. Wu, Y. Chi, X. Xie, X. Hua
- PyTorch: Introduction and Practice (technical book). *Publishing House of Electronics Industry 2018*
  Y. Chen (*Bestseller and Excellent Author of 2018 in Publishing House of Electronics Industry*)

⚙ Skills & Miscellaneous

- **Programming Languages:** Python > C/CPP/CUDA/Lua > Java/Scala/Groovy > [Node.]JS/HTML/CSS
- **Deep Learning Framework:** PyTorch > Caffe > TensorFlow2 > Chainer > Torch
- **Tools:** Linux, Docker, HDFS, Bazel, Data Analysis, Distributed computing, [No]SQL, LaTeX ...
- Code contributor to **PyTorch** (10 commits merged), active in PyTorch community (id: chenyuntc)
- **Linux lover**, ArchLinux Wiki contributor, Android geek, Raspberry Pi and OpenWrt enthusiast.
- Reviewer for **ICRA** and **CVPR**, 2 anonymous submissions to **ECCV 2020**.
- **Champion** out of 967 teams in Zhihu Machine Learning Challenge. **First Prize** of Beijing Mathematics Contest for University Students.