YUN CHEN

ightharpoonup chenyuntc@gmail.com ightharpoonup yun.am ightharpoonup chenyuntc ightharpoonup (+1) 647-869-3455

EDUCATION

University of Toronto

2021 – present

Ph.D. Candidate in Computer Science advised by Prof. Raquel Urtasun

Beijing University of Posts and Telecommunications

2012 - 2019

- B.A. in Communication Engineering (*Graduated with Honors*)
- M.S. in PRIS Lab advised by Prof. Bo Xiao

EXPERIENCE

Waabi Inc. June 2021 – present

Researcher II (2021) \rightarrow Senior Researcher (2022)

• Building *Waabi World*, an AI-powered, high-fidelity simulator for autonomous driving, enabling scalable, safe, and efficient testing and training of self-driving systems in virtual environments

Uber Inc. ATG R&D

Sep. 2018 – Feb. 2021

AI Resident (2018) \rightarrow Research Scientist (2019)

• 3D reconstruction, 3D perception, and neural rendering for self-driving vehicles

Alibaba Inc. DAMO Academy

Mar. 2018 – Jul. 2018

Research Intern

• 3D volumetric detection for diagnosis on medical imaging

SELECTED PUBLICATIONS - Google Scholar

• Unifying 3DGS and NeRF. In submission

Y. Chen*, M. Haines*, J. Wang, K. Lis, S. Manivasagam, Z. Yang, R. Urtasun

G3R: Gradient Guided Generalizable Reconstruction. ECCV 2024

Y. Chen*, J. Wang*, Z. Yang, S. Manivasagam, R. Urtasun

• Real-Time Neural Rasterization for Large Scenes. ICCV 2023

J. Y. Liu, Y. Chen*, Z. Yang*, J. Wang, S. Manivasagam, R. Urtasun

• Unisim: A neural closed-loop sensor simulator. **Highlight**, (2.5%) CVPR 2023

Z. Yang*, Y. Chen*, J. Wang*, S. Manivasagam*, W. C. Ma, A. J. Yang, R. Urtasun

Geosim: Realistic video simulation via geometry-aware composition for self-driving. Best Paper Candidate (0.23%), CVPR 2021

Y. Chen*, F. Rong*, S. Duggal*, S. Wang, X. Yan, S. Manivasagam, S. Xue, R. Urtasun

• PROJECTS

- MiniGo: A minimal implementation of AlphaGo
- PyTorch-book: Authored a bestselling Chinese technical book on PyTorch
- Simple-Faster-RCNN: The first pure PyTorch implementation of Faster R-CNN
- PyTorch-Text: Implementation of various text-classification models

S MISC

- Former active contributor in PyTorch Community (id: chenyuntc), Linux, Android, etc
- Reviewer for over 20 top-tier conferences and journals
- First Prize in The Chinese Mathematics Competitions (Beijing Contest District), 2013
- Champion(1/963) in Zhihu Machine Learning Challenge, 2017
- Outstanding Author, Publishing House of Electronics Industry, 2018