

YURONG YOU

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- EMPLOYMENT**
- NVIDIA Research Jan 2024 - present
Research Scientist, Autonomous Vehicle Research Group
- Apple Sep 2023 - Jan 2024
Postdoctoral Researcher, Special Projects Group
- EDUCATION**
- Cornell University Aug 2018 - Aug 2023
Ph.D., Computer Science
Master of Science, Computer Science
- Advisor: Prof. Kilian Q. Weinberger and Prof. Bharath Hariharan
- Shanghai Jiao Tong University Sep 2014 - Jun 2018
B.E. in Computer Science (Zhiyuan Honors Degree), ACM Honors Class
- Advisors: Prof. Yong Yu and Prof. Cewu Lu
- PUBLICATIONS**
- Teaching Cars to See in a Day: Unsupervised Object Discovery with Reward Fine-tuning
Katie Z Luo, Zhenzhen Liu, Xiangyu Chen, **Yurong You**, Sagie Benaim, Cheng Perng Phoo, Mark Campbell, Wen Sun, Bharath Hariharan, Kilian Q Weinberger
Conference on Neural Information Processing Systems (NeurIPS) 2023
- Unsupervised Adaptation from Repeated Traversals for Autonomous Driving
Yurong You^{*}, Cheng Perng Phoo^{*}, Katie Z Luo^{*}, Travis Zhang, Wei-Lun Chao, Bharath Hariharan, Mark Campbell, Kilian Q Weinberger
Conference on Neural Information Processing Systems (NeurIPS) 2022
- Learning to Detect Mobile Objects from LiDAR Scans Without Labels
Yurong You^{*}, Katie Z Luo^{*}, Cheng Perng Phoo, Wei-Lun Chao, Wen Sun, Bharath Hariharan, Mark Campbell, Kilian Q. Weinberger
Conference on Computer Vision and Pattern Recognition (CVPR) 2022
- Ithaca365: Dataset and Driving Perception under Repeated and Challenging Weather Conditions
Carlos Andres Diaz, Youya Xia, **Yurong You**, Jose Nino, Junan Chen, Josephine Monica, Xiangyu Chen, Katie Z Luo, Yan Wang, Marc Emond, Wei-Lun Chao, Bharath Hariharan, Kilian Q. Weinberger, and Mark Campbell
Conference on Computer Vision and Pattern Recognition (CVPR) 2022
- Hindsight is 20/20: Leveraging Past Traversals to Aid 3D Perception
Yurong You, Katie Z Luo, Xiangyu Chen, Junan Chen, Wei-Lun Chao, Wen Sun, Bharath Hariharan, Mark Campbell, Kilian Q. Weinberger
International Conference on Learning Representations (ICLR) 2022
- R4D: Utilizing Reference Objects for Long-Range Distance Estimation
Yingwei Li, Tiffany Chen, Maya Kabkab, Ruichi Yu, Longlong Jing, **Yurong You**, Hang Zhao
International Conference on Learning Representations (ICLR) 2022

^{*} indicates equal contribution

Exploiting Playbacks in Unsupervised Domain Adaptation for 3D Object Detection
Yurong You*, Carlos Andres Diaz-Ruiz*, Yan Wang, Wei-Lun Chao, Bharath Hariharan,
 Mark Campbell, Kilian Q. Weinberger

IEEE International Conference on Robotics and Automation (ICRA) 2022

Depth Estimation Matters Most: Improving Per-Object Depth Estimation for Monocular
 3D Detection and Tracking

Longlong Jing, Ruichi Yu, Henrik Kretschmar, Kang Li, Ruizhongtai Qi, Hang Zhao,
 Alper Aytaci, Xu Chen, Dillon Cower, Yingwei Li, **Yurong You**, Han Deng, Congcong
 Li, Dragomir Anguelov

IEEE International Conference on Robotics and Automation (ICRA) 2022

End-to-End Pseudo-LiDAR for Image-Based 3D Object Detection

Rui Qian*, Divyansh Garg*, Yan Wang*, **Yurong You***,
 Serge Belongie, Bharath Hariharan, Mark Campbell, Kilian Q. Weinberger, Wei-Lun
 Chao

Conference on Computer Vision and Pattern Recognition (CVPR) 2020

Train in Germany, Test in The USA: Making 3D Object Detectors Generalize

Yan Wang*, Xiangyu Chen *, **Yurong You**, Li Erran,
 Bharath Hariharan, Mark Campbell, Kilian Q. Weinberger, Wei-Lun Chao

Conference on Computer Vision and Pattern Recognition (CVPR) 2020

Pseudo-LiDAR++: Accurate Depth for 3D Object Detection in Autonomous Driving

Yurong You*, Yan Wang*, Wei-Lun Chao*, Divyansh Garg, Geoff Pleiss,
 Bharath Hariharan, Mark Campbell, Kilian Q. Weinberger

International Conference on Learning Representations (ICLR) 2020

Simple Black-box Adversarial Attacks

Chuan Guo, Jacob R. Gardner, **Yurong You**,
 Andrew Gordon Wilson, Kilian Q. Weinberger

International Conference on Machine Learning (ICML) 2019

Resource Aware Person Re-identification across Multiple Resolutions

Yan Wang*, Lequn Wang*, **Yurong You***, Xu Zou, Vincent Chen, Serena Li,
 Bharath Hariharan, Gao Huang, Kilian Q. Weinberger

Conference on Computer Vision and Pattern Recognition (CVPR) 2018

Virtual to Real Reinforcement Learning for Autonomous Driving

Xinlei Pan*, **Yurong You***, Ziyang Wang, Cewu Lu

Spotlight, *British Machine Vision Conference (BMVC) 2017*

INTERNSHIP

Waymo LLC

Research Intern, Perception and Sensor Simulation

May 2022 - Dec 2022

- Host: Charles R. Qi

NVIDIA Corporation

Research Intern

Jun 2021 - Aug 2021

- Host: Benjamin Eckart

Waymo LLC

Intern, Perception Research and Development

May 2020 - Dec 2020

- Host: Jiyang Gao and Xinwei Shi
Prof. Kilian Q. Weinberger's Group at Cornell University
Visiting Undergraduate Research Intern Sep 2017 - Dec 2017
- Advisor: Prof. Kilian Q. Weinberger
- Computational Vision and Geometry Lab at Stanford University
Visiting Undergraduate Research Intern Jun 2017 - Aug 2017
- Advisor: Prof. Silvio Savarese
- Machine Vision and Intelligence Group at Shanghai Jiao Tong University
Research Assistant Aug 2016 - Jun 2018
- Advisor: Prof. Cewu Lu

- HONORS AND AWARDS**
- Co-First Place & People's Choice in Cornell Three Minute Thesis Competition 2023
 - Outstanding Graduate of Shanghai Jiao Tong Univ. 2018
 - Zhiyuan Outstanding Graduate Scholarship 2018
 - Lixin Tang Scholarship of Shanghai Jiao Tong Univ. (Top 1%) 2017, 2016
 - Zhiyuan Honorary Scholarship 2016, 2015
 - Academic Excellence Scholarship (Class A) of SJTU. (Top 5%) 2015
 - KoGuan Encouragement Scholarship of SJTU. (Top 4%) 2015

- TEACHING EXPERIENCE**
- CS 4/5780: Intro to Machine Learning
Teaching Assistant, Cornell University Jan - May 2023
 - CS 2110: OO Programming and Data Structures
Teaching Assistant, Cornell University Aug - Dec 2018
 - CS 259: Numerical Methods for Data Science
Teaching Assistant, Shanghai Jiao Tong University Mar - Jun 2018
 - MS208: Compiler Design and Implementation
Teaching Assistant, Shanghai Jiao Tong University Mar - Jun 2017

- PROFESSIONAL ACTIVITIES**
- Reviewer of NeurIPS (2020, 2021, 2022, 2023), ICLR (2021, 2023, 2024), CVPR (2021, 2022, 2023, 2024), ICCV (2021, 2023), ICML (2022, 2023, 2024), ECCV (2022), AAAI (2023), IROS (2023), ICRA (2024)

- PROGRAMMING PROFICIENCIES**
- Python, C/C++, MATLAB, L^AT_EX, Java, Verilog HDL

Last Update: January 6, 2024