

YURONG YOU

PH.D. STUDENT, COMPUTER SCIENCE

Cornell University
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- EDUCATION**
- Cornell University** Aug 2018 - Present
Ph.D. Student, Computer Science
- Shanghai Jiao Tong University** Sept 2014 - Jun 2018
Bachelor of Engineering (Zhiyuan Honors Degree), Computer Science, ACM Honors Class
- Advisors: Prof. [Yong Yu](#) and Prof. [Cewu Lu](#)
- RESEARCH EXPERIENCE**
- Prof. Kilian Q. Weinberger's Group** at **Cornell University**
Visiting Undergraduate Research Intern Sep 2017 - Dec 2017
- Advisor: Prof. [Kilian Q. Weinberger](#)
- **Resource Aware Person Re-identification across Multiple Resolutions.**
Developed a new person re-identification model (*Deeply Supervised Multi-Resolution Cascades*) that substantially improves over the previous state-of-the-art results on all five re-ID datasets and can be used to effectively tradeoff accuracy and computation in the presence of resource constraints. (CVPR 2018 paper)
- Computational Vision and Geometry Lab** at **Stanford University**
Visiting Undergraduate Research Intern Jun 2017 - Aug 2017
- Advisor: Prof. [Silvio Savarese](#)
- **Multimodal Deep Reinforcement Learning for Robotics.**
Constructed a simulation environment for peg-in-hole insertion tasks with non-cylindrical pegs, implemented a parallel version of the DDPG algorithm and created a calibration system for Kinect2-to-robot perception transformation.
- Machine Vision and Intelligence Group** at **Shanghai Jiao Tong University**
Research Assistant Aug 2016 - present
- Advisor: Prof. [Cewu Lu](#)
- **Deep Reinforcement Learning for Autonomous Driving.**
Constructed a special version of TORCS for deep RL training (open-sourced) and developed a *Virtual-to-Real Reinforcement Learning* pipeline for real-data-adaptable visual autonomous driving. (BMVC 2017 spotlight)
- PUBLICATION**
- Virtual to Real Reinforcement Learning for Autonomous Driving**
Xinlei Pan*, **Yurong You***, Ziyang Wang, Cewu Lu
Spotlight (8% acc), *British Machine Vision Conference* (BMVC) 2017
- 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
- SELECTED PROJECTS**
- TORCS for Reinforcement Learning** 
Open-source for facilitating further research. May 2017
- Constructed a special version of *TORCS* (The Open Racing Car Simulator) suiting the need of training deep reinforcement learning autonomous driving models.

* indicates equal contribution

Monte Carlo Path Tracer CS230 *Virtual Reality and Interactive 3D Graphics*, **99.88/100**

May 2017

- Developed a graphical engine from scratch that implements a Monte Carlo Path Tracer and supports various realistic effects such as *color bleeding*, *soft shadow*, *caustic*, etc.

Five-Stage MIPS Pipeline in Verilog HDL MS108 *Computer Architecture*, **97/100**

Aug 2016

- Designed and implemented a five-stage pipeline for most MIPS integer operations with forwarding optimization.

Compiler Mango MS208 *Compiler Design and Implementation*, **99/100**

May 2016

- Designed and implemented a highly functional compiler from *Lexical Analysis* to *Register Allocation* phase with graph-coloring optimization.

HONORS
AND
AWARDS

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 (Zhiyuan College exclusive)	2016, 2015
Academic Excellence Scholarship (Class A) of SJTU. (Top 5%)	2015
KoGuan Encouragement Scholarship of SJTU. (Top 4%)	2015

TEACHING
EXPERIENCE

CS 2110: OO Programming and Data Structures <i>Teaching Assistant</i>	Aug - Dec 2018
CS 259: Numerical Methods for Data Science <i>Teaching Assistant</i>	Mar - June 2018
MS208: Compiler Design and Implementation <i>Teaching Assistant</i>	Mar - June 2017

PROGRAMMING
PROFICIENCIES

C/C++, Python (Numpy, TensorFlow, PyTorch), Lua (Torch), MATLAB, L^AT_EX
Java, Verilog HDL

INTERESTS
AND
ACTIVITIES

Philosophy, Psychology, Physics
Debate (Former Vice-captain of Zhiyuan College Debate Team)
Half-Marathon Finisher (2:06:27) of Shanghai International Marathon 2016

Last Update: December 2, 2018