

YIDE (FRED) SHENTU

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EDUCATION

University of California at Berkeley, 2020-2025(estimated),
PhD in Computer Science, Artificial Intelligence/Machine Learning
Advised by Pieter Abbeel

University of California at Berkeley, 2014-2018

Bachelor of Science

Majors: Physics, Math and Computer Sciences.

Major GPA: 3.95, Dean's List

Publication

- **From LLMs to Actions: Latent Codes as Bridges in Hierarchical Robot Control**
Yide Shentu*, Philipp Wu*, Aravind Rajeswaran, Pieter Abbeel
[preprint](#), [website](#)
- **GELLO: A General, Low-Cost, and Intuitive Teleoperation Framework for Robot Manipulators**
Philipp Wu, Yide Shentu, Zhongke Yi, Xingyu Lin, Pieter Abbeel
[preprint](#), [website](#)
- **Autoregressive Uncertainty Modeling for 3D Bounding Box Prediction**
YuXuan Liu, Nikhil Mishra, Maximilian Sieb, Yide Shentu, Pieter Abbeel, Xi Chen
[preprint](#)
- **Learning instance segmentation by experimentation**
Yide Shentu*, Dian Chen*, Deepak Pathak*, Pulkit Agrawal, Sergey Levine, Trevor Darrell, Jitendra Malik
Deep Learning in Robotics Vision Workshop (CVPR), 2018
- **Zero-Shot vision imitation**
Deepak Pathak*, Michael Luo*, Parsa M.*, Dian Chen, Yide Shentu, Evan Shelhamer, Alexei Efros, Trevor Darrell, Pulkit Agrawal
International Conference on Learning Representation (ICLR) 2018 (Oral)
- **Probabilistically safe policy transfer**
David Held, Zoe McCarthy, Michael Zhang, Fred Shentu, Pieter Abbeel
International Conference on Robotics and Automation (ICRA) 2017

AWARDS

- 2013 AMC School Winner
- Chinese national athlete at second level (F3A)
- 2012 Chinese National High School Student Physics Competition, First Price of Zhejiang Province
- 2013 Chinese National High School Student Math Competition, First Price of Zhejiang Province

WORK EXPERIENCE

Founding Engineer, Research Scientist in Covariant AI, January 2018-Aug 2023

- Developing machine learning algorithms for logistics and manufacturing automation.
- Working with multiple teams(manufacturing/mechanical/electrical engineering teams) to deliver the entire robotics solution.
- Team lead for building the very first demo cell at a sp500 company client site in 6 months with a team of only four people.
- Working end-to-end on vision-based robotics solutions(from the multiview rgb images to the executable robot motion).
- Experienced with precise camera calibration algorithms and learning based depth model for multiview stereo camera system.

TEACHING EXPERIENCE

Reader and Teaching Assistant for CS70 Fall 2015, August 2015-December 2015

Reader and Teaching Assistant for EE16B Spring 2016, December 2015-January 2016

Reader and Teaching Assistant for CS189 Fall 2016, August 2016-December 2016