

Yifan You

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Education

University of California, Berkeley

Ph.D., Electrical Engineering and Computer Science

Sep 2022 – Jun 2027 (expected)

University of California, Los Angeles

B.S., Mathematics (GPA: 3.95)

Sep 2018 – Jun 2022

Publications

[1] Lin Shao, **Yifan You**, Mengyuan Yan, Shenli Yuan, Qingyun Sun, Jeannette Bohg. GRAC: Self-Guided and Self-Regularized Actor-Critic. *CoRL*, 2021.

[2] **Yifan You***, Lin Shao*, Toki Migimatsu, Jeannette Bohg. OmniHang: Learning to Hang Arbitrary Objects with Contact Point Correspondence and Neural Collision Estimation. *ICRA*, 2021.

Experience

Biomimetic Millisystems Lab

Graduate Researcher, advised by Ron Fearing

Sep 2021 – Present

- Developing a soft, pneumatically-driven, multi-DOF robot for endonasal surgery.

CMU RoboTouch Lab

Undergraduate Researcher, advised by Wenzhen Yuan

Sep 2021 – Jan 2022

- Developing a hierarchical algorithm for in-hand manipulation that incorporates tactile feedback from GelSight sensors. Planning to showcase demo on a real robotic hand.

Columbia Artificial Intelligence and Robotics Lab

Undergraduate Researcher, advised by Shuran Song

Apr 2021 – Jan 2022

- Developing algorithm for learning a single grasping policy that generalizes to novel grippers with different actuation methods and control parameters, including articulated grippers, soft grippers, and suction grippers.

Stanford Interactive Perception and Robot Learning Lab

Undergraduate Researcher, advised by Jeannette Bohg

Dec 2019 – Mar 2021

- Proposed and developed an algorithm for a novel robotic manipulation problem of hanging arbitrary objects onto supporting items, using contact point correspondence and neural motion planning.
- Worked on GRAC, a deep RL algorithm which removes the target network and combines policy gradient with zero-order optimization for actor improvement. We achieve/outperform SOTA on the OpenAI Mujoco task suite.

Awards

UC Berkeley EECS Chair's Graduate Award

Apr 2022

NSF GRFP (Graduate Research Fellowship Program) Fellow

Sep 2022

Extracurricular Activities

UC Berkeley EE Graduate Student Association - President

2023

BASIS (Bay Area Scientists Inspiring Students) - Volunteer

2022 – 2023

BAIR (Berkeley AI Research) Undergraduate Mentoring Program - Mentor

2022 – 2023