Chung Min Kim

(408) 702-7026
chungmin99@gmail.com
chungmin99@berkeley.edu
http://chungmin.kim/
https://github.com/chungmin99

Interests

Computer vision, 3D scene understanding, robotics!

Education

University of California, Berkeley *08/2022 - Present*
PhD in Computer Science

- Advised by Prof. Angjoo Kanazawa and Prof. Ken Goldberg

University of California, Berkeley *08/2021 - 05/2022*
Masters in Electrical Engineering and Computer Science

- Accelerated Master's program with advisor Prof. Ken Goldberg

University of California, Berkeley (GPA: 3.870 / 4.0) *08/2017 - 05/2021*
Bachelors in Electrical Engineering and Computer Science
Bachelors in Mechanical Engineering

Publications

See Google Scholar for more information.

[1] Justin Kerr*, Chung Min Kim*, Mingxuan Wu, Brent Yi, Qianqian Wang, Ken Goldberg, and Angjoo Kanazawa. **"Robot See Robot Do: Imitating Articulated Object Manipulation with Monocular 4D Reconstruction."** In 7th Annual Conference on Robot Learning (CoRL). 2024. *Oral presentation.*

[2] Chung Min Kim*, Mingxuan Wu*, Justin Kerr*, Ken Goldberg, Matthew Tancik, and Angjoo Kanazawa. **"GARField: Group Anything with Radiance Fields."** In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

[3] Rashid, Adam*, Satvik Sharma*, Chung Min Kim, Justin Kerr, Lawrence Yunliang Chen, Angjoo Kanazawa, and Ken Goldberg. **"Language embedded radiance fields for zero-shot task-oriented grasping."** In 7th Annual Conference on Robot Learning (CoRL). 2023. *Oral presentation, best paper finalist.*

[4] Kerr, Justin, Chung Min Kim*, Ken Goldberg, Angjoo Kanazawa, and Matthew Tancik. **"Lerf: Language embedded radiance fields."** In Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2023. *Oral presentation.*

[5] Huang, Huang*, Letian Fu*, Michael Danielczuk, Chung Min Kim, Zachary Tam, Jeffrey Ichnowski, Anelia Angelova, Brian Ichter, and Ken Goldberg. **"Mechanical search on shelves with efficient stacking and destacking of objects."** In The International Symposium of Robotics Research (ISRR), 2022.

[6] Huang, Huang, Michael Danielczuk, Chung Min Kim, Letian Fu, Zachary Tam, Jeffrey Ichnowski, Anelia Angelova, Brian Ichter, and Ken Goldberg. **"Mechanical search on shelves using a novel “Bluction” tool."** In 2022 International Conference on Robotics and Automation (ICRA), 2022.

[7] Kim, Chung Min, Michael Danielczuk, Isabella Huang, and Ken Goldberg. **"IPC-GraspSim: Reducing the Sim2Real gap for parallel-jaw grasping with the incremental potential contact model."** In 2022 International Conference on Robotics and Automation (ICRA), 2022.

Work Experience

Microsoft — *Software Engineering Intern* — *05/2020 - 08/2020*
Redmond, WA
Developed migration-free storage in C++ for Outlook Storage Team in order to reduce performance impacts to users during object schema updates.

Corelight, Inc. — *Software Engineering Intern* — *05/2019 - 08/2019*
San Francisco, CA
Conducted data-driven research to generate a comprehensive summary of an unfamiliar complex network (e.g., Internet in enterprise setting) + developed software package to:

- Decorate log outputs from Zeek (open-source software network analysis framework) using Zeek's domain-specific scripting language. The log entries pertain to network events (e.g., originating + responding IP addresses for a single connection).
- Post-process log outputs using Python (numpy, pandas) to generate useful tables.

Software Engineer (Part-Time) — *08/2018 - 05/2019*
Extended Python test infrastructure to verify integrity of files released to 3rd party search engines (e.g., Splunk).

Software Engineering Intern — *05/2018 - 08/2018*

- Extended existing Python test infrastructure to check integrity of log exports to Elasticsearch (search engine).
- Contributed code coverage feature for the Zeek project (large-scale, open-source project)
- Created framework to generate end-to-end file transfer network traffic by connecting Docker containers.

Awards

- National Science Foundation Graduate Research Fellowship (2022, accepted)
- Drake Scholarship: 4-year merit-based full scholarship for Mechanical Engineering students

Skills

- Programming languages: Python, Typescript. Worked with numpy, pytorch, and JAX.
- Robots I worked with: ABB YuMi, UR5.