Albert Hao Li

Contact _____ California Institute of Technology e-mail: alberthli@caltech.edu 1200 E. California Blvd. website: alberthli.github.io MC 9-94 Pasadena, CA 91125, USA Education _____ California Institute of Technology Pasadena, CA Ph.D., Control and Dynamical Systems 2021-Present Advisor: Aaron Ames GPA: 4.121 / 4.000 Stanford University Stanford, CA 2019-2021 M.S., Mechanical Engineering GPA: 4.120 / 4.000 University of California, Berkeley Berkeley, CA 2015-2019 B.S., Mechanical Engineering Minor, Electrical Engineering and Computer Science GPA: 3.928 / 4.000 Awards and Honors ————— Kortschak Scholars Graduate Fellowship 2021 UC Berkeley College of Engineering High Honors 2019 Research ————— Advanced Mechanical Bipedal Experimental Robotics Lab Caltech 2021-Present PI: Aaron Ames Assistive Robotics and Manipulation Lab Stanford University PI: Monroe Kennedy III 2019-2021 Hybrid Robotics Lab UC Berkeley PI: Koushil Sreenath 2019 Berkeley Emergent Space Tensegrities Lab UC Berkeley 2018-2019 PI: Alice Agogino Laboratory for Automation Science and Engineering UC Berkeley PI: Ken Goldberg 2017 Industry Experience _____ Apple Inc. Cupertino, CA Apple Watch Product Design Intern 2018

Publications ——— **Preprints** [P1] Albert Hao Li, Preston Culbertson, Aaron D. Ames, "PONG: Probabilistic Object Normals for Grasping via Analytic Bounds on Force Closure Probability." Submitted to ICRA 2024. **Journal Publications** [J1] Andrew Preston Sabelhaus, Albert Hao Li, Kimberley Sover, Jacob Madden, Andrew Barkan, Adrian Agogino, and Alice Agogino, "Inverse Statics Optimization for Compound Tensegrity Robots," IEEE Robotics and Automation Letters, vol. 5, no. 3, pp. 3982-3989, 2020. Conference Publications [C4] Albert Hao Li, Preston Culbertson, Joel W. Burdick, Aaron D. Ames, "FRoGGeR: Fast Robust Grasp Generation via the Min-Weight Metric." To appear in IROS 2023. [C3] Albert Hao Li*, Philipp Wu*, Monroe Kennedy III, "Replay Overshooting: Learning Stochastic Latent Dynamics with the Extended Kalman Filter," 2021 IEEE International Conference on Robotics and Automation (ICRA), Xi'an, China, 2021, pp. 852-858. *Equal Contribution. [C2] Katherine Lin Poggensee*, Albert Hao Li*, Daniel Sotsaikich*, Bike Zhang, Prasanth Kotaru, Mark Mueller, and Koushil Sreenath, "Ball Juggling on the Bipedal Robot Cassie," 2020 European Control Conference (ECC), Saint Petersburg, Russia, 2020, pp. 875-880. *Equal Contribution.

[C1] Jeffrey Mahler, Matthew Matl, Xinyu Liu, Albert Li, David Gealy, Ken Goldberg, "Dex-Net 3.0: Computing Robust Vacuum Suction Grasp Targets in Point Clouds Using a New Analytic Model and Deep Learning," 2018 IEEE International Conference on Robotics and Automation

Stanford, CA

Berkeley, CA

2023

2019

2024

2020

2020, 2021

Stanford University

Stanford University

(ICRA), Brisbane, QLD, 2018, pp. 5620-5627.

"FRoGGeR: Fast Robust Grasp Generation via the Min-Weight Metric"

Bay Area Robotics Symposium 2019 (jointly with Bike Zhang)

IEEE International Conference on Robotics and Automation (ICRA)

Advanced Dynamics, Controls, and System Identification (ME334)

Presentations and Talks ————

Interactive Perception and Robot Learning Lab

Conference/Symposium Presentations

"Ball Juggling on the Bipedal Robot Cassie"

Reviewing Activities _____

IEEE Robotics and Automation Letters (RA-L)

Teaching _____

Dynamic Systems, Vibrations, and Control (ME161)

Invited Talks

Teaching Assistant

Teaching Assistant