

Jonathan N. Lee

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Education

- **University of California, Berkeley**, 2019
B.S. (Honors) Electrical Engineering and Computer Science
Honors Breadth Area: Statistics
Technical GPA: 4.0, Cumulative GPA: 3.98
Honors: Eta Kappa Nu EECS Honor Society, Tau Beta Pi Engineering Honor Society, Ford Oval Scholarship, Kraft Award.
Topics: Robotics, Machine Learning, Probability, Optimization, Signals and Systems.
Software: Python, Java, CSS, Javascript, Tensorflow, Google App Engine, OpenCV, Heroku, WebRTC.

Experience

- **Berkeley Artificial Intelligence Research Lab**, October 2015–Present
Advisor: Professor Ken Goldberg
Researching machine learning and statistics in the context of robotics and manipulation.
- **Teaching Assistant, EE 120 Signals and Systems**, August 2017–Present
Creating course materials, grading assignments, and holding office hours for upper-division course.
- **Consulting for GitHub, Machine Learning at Berkeley**, October–December, 2016
Developing a robust pipeline for feature extraction and classification to automatically analyze text data.
- **Consulting for H2O.ai, Machine Learning at Berkeley**, February–May, 2016
Built platform to demonstrate H2O machine learning algorithms.

Publications and Preprints

- **Derivative-Free Failure Avoidance Control for Manipulation using Learned Support Constraints.** Jonathan Lee, Michael Laskey, Roy Fox, Ken Goldberg. Preprint, 2017.
- **Dart: Optimizing Noise Injection for Imitation Learning.** Michael Laskey, Jonathan Lee, Roy Fox, Anca Dragan, Ken Goldberg. Conference on Robot Learning (CoRL), 2017.
- **Comparing Human-Centric and Robot-Centric Sample Efficiency for Robot Deep Learning from Demonstrations.** Michael Laskey, Caleb Chuck, Jonathan Lee, Jeffrey Mahler, Sanjay Krishnan, Kevin Jamieson, Anca Dragan, Ken Goldberg. International Conference on Robotics and Automation (ICRA), 2017.
- **Robot Grasping in Clutter: Using a Hierarchy of Supervisors for Learning from Demonstrations.** Michael Laskey, Jonathan Lee, Caleb Chuck, David Gealy, Wesley Hsieh, Florian T. Pokorny, Anca D. Dragan, and Ken Goldberg. International Conference on Automation Science and Engineering (CASE), 2016.

Selected Projects

- **MIPS Compiler**, 2014, Java
Developed a compiler from a Pascal-like language to MIPS code. Supports procedures, variables.
- **Neuralpy**, 2015, Python
Designed and launched Python neural network library on PyPI. 8,000+ downloads.