

Jonathan N. Lee

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- Education** **B.S. (Honors) Electrical Engineering & Computer Science, 2019**
University of California, Berkeley
Honors Concentration: Mathematics
Topics: Robotics, Machine Learning, Optimization, Control, Probability
Technical GPA: 4.0
Cumulative GPA: 3.98
- Research & Teaching** **Laboratory for Automation Science and Engineering, 2015–**
Undergraduate Researcher
Advisor: Ken Goldberg
Researching at the intersection of robotics and machine learning.
- Dept. of Electrical Engineering & Computer Science, 2017–2018**
Machine Learning (CS 189) Teaching Assistant, 2018
Signals and Systems (EE 120) Teaching Assistant, 2017
Machine Learning (CS 189) Tutor/Academic Intern, 2017
Eta Kappa Nu EECS Honor Society Tutor, 2017
- Industry** **Consulting for GitHub, Machine Learning at Berkeley, 2016**
Developed a robust pipeline for feature extraction and classification to automatically classify programming languages for GitHub’s code repositories.
- Consulting for H2O.ai, Machine Learning at Berkeley, 2016**
Built platform to demonstrate H2O machine learning algorithms.
- Software Engineering Intern, DreameGGs Funding Club, 2015**
Developed machine learning models to predict success of independent movies. Increased accuracy by 5.6%.
- Software Engineering Intern, Salient Technology Intl. LLC, 2014**
Built www.vstudy.co, a WebRTC-driven video client for student collaboration.
- Publications** *A Dynamic Regret Analysis and Adaptive Regularization Algorithm for On-Policy Robot Imitation Learning.*
J. Lee, M. Laskey, A. Tanwani, A. Aswani, K. Goldberg.
Workshop on the Algorithmic Foundations of Robotics (WAFR), 2018.
- Generalizing Robot Imitation Learning with Invariant Hidden Semi-Markov Models.*
A. Tanwani, **J. Lee**, B. Thananjeyan, M. Laskey, S. Krishnan, R. Fox, K. Goldberg, S. Calinon.

Workshop on the Algorithmic Foundations of Robotics (WAFR), 2018.

Constraint Estimation and Derivative-Free Recovery for Robot Learning from Demonstrations.

J. Lee, M. Laskey, R. Fox, K. Goldberg.

Conference on Automation Science and Engineering (CASE), 2018

Dart: Optimizing Noise Injection for Imitation Learning.

M. Laskey, **J. Lee**, R. Fox, A. Dragan, K. Goldberg.

Conference on Robot Learning (CoRL), 2017.

Comparing Human-Centric and Robot-Centric Sample Efficiency for Robot Deep Learning from Demonstrations.

M. Laskey, C. Chuck, **J. Lee**, J. Mahler, S. Krishnan, K. Jamieson, A. Dragan, K. Goldberg.

Conference on Robotics and Automation (ICRA), 2017.

Robot Grasping in Clutter: Using a Hierarchy of Supervisors for Learning from Demonstrations.

M. Laskey, **J. Lee**, C. Chuck, D. Gealy, W. Hsieh, F. Pokorny, A. Dragan, K. Goldberg.

Conference on Automation Science and Engineering (CASE), 2016.

Preprints

Stability Analysis of On-Policy Imitation Learning Algorithms Using Dynamic Regret.

J. Lee, M. Laskey, A. Tanwani, K. Goldberg.

Robotics: Science and Systems (RSS) Workshop on Imitation and Causality, 2018.

Iterative Noise Injection for Scalable Imitation Learning.

M. Laskey, **J. Lee**, W. Hsieh, R. Liaw, J. Mahler, R. Fox, K. Goldberg.

arXiv, 2016.

Honors

CRA Outstanding Undergraduate Researcher Award 2019 Finalist, EECS Honors Degree Program, Eta Kappa Nu EECS Honor Society, Tau Beta Pi Engineering Honor Society, Ford Oval Scholarship, Kraft Award, Dean's List, 2nd Place Siemens FutureMakers Challenge UC Berkeley.

Coursework

Graduate Courses: Linear System Theory, Learning and Optimization, Information Theory, Theoretical Statistics.

Undergraduate Courses: Convex Optimization, Feedback Control, Probability and Random Processes, Machine Learning, Signals and Systems, Artificial Intelligence, Real Analysis, Abstract Algebra, Linear Algebra, Multivariate Calculus, Data Structures and Algorithms, Operating Systems.

Activities

Machine Learning at Berkeley. The Triple Helix at Berkeley.