Nathan Owen **Lambert**

nol@berkeley.edu | 401.219.1176 | Berkeley CA
Website: natolambert.me | LinkedIn:/in/ natolambert

EDUCATION

University of California, Berkeley
PhD in Electrical Engineering and Computer Sciences
Advisor: Kristofer Pister | Committee: Sergey Levine, Claire Tomlin, Roberto Calandra
Expected - Dec. 2021 | Berkeley, CA
PhD Candidate | GPA: 4.0

Cornell University
BS in Electrical and Computer Engineering
May 2017 | Ithaca, NY
GPA: 4.0

EXPERIENCE

DeepMind | Research Intern
Summer 2021* | Robotics Team | Virtual

Facebook AI Research | Research Intern, Contingent Worker
May 2019-October 2020 | Dr. Roberto Calandra | Robotics Team | Menlo Park, CA

Tesla Motors | Engineering Intern
Summer 2015 | Hardware, Test, & Analysis Team | Palo Alto, CA

PUBLICATIONS

[1] B. Zhang, R. Rajan, L. Pineda, **Lambert, Nathan**, A. Biedenkapp, K. Chua, F. Hutter, and R. Calandra, "On the importance of hyperparameter optimization for model-based reinforcement learning," *International Conference on Artificial Intelligence and Statistics*, 2021.

[2] M. Andrus, S. Dean, T. Gilbert, **Lambert, Nathan**, and T. Zick, "Ai development for the public interest: From abstraction traps to sociotechnical risks," *IEEE International Symposium on Technology and Society, 12-15th November, Tempe: Arizona*, 2020.

[3] **Lambert, Nathan**, A. Wilcox, H. Zhang, K. Pister, and R. Calandra, "Learning accurate long-term dynamics for model-based reinforcement learning," *Under Review*, 2020.

[4] **Lambert, Nathan**, C. Schindler, D. Drew, and K. Pister, "Nonholonomic yaw control of a novel flying robot with model-based reinforcement learning," *Arxiv Preprint: https://arxiv.org/abs/2009.01221*, 2020.

[5] **Lambert, Nathan**, F. Toddywala, B. Liao, E. Zhu, L. Lee, and K. Pister, "Learning for microrobot exploration: Model-based locomotion, robust navigation, and low-power deep classification," *International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS)*, 2020.

[6] **Lambert, Nathan**, B. Amos, O. Yadan, and R. Calandra, "Objective mismatch in model-based reinforcement learning," *Learning for Decision and Control (L4DC)*, 2020.

[7] T. Li, **Lambert, Nathan**, R. Calandra, A. Rai, and F. Meier, "Learning generalizable locomotion skills with hierarchicalreinforcement learning," *International Conference on Robotics and Automation (ICRA): https://arxiv.org/abs/1909.12324*, 2020.

[8] **Lambert, Nathan**, D. S. Drew, J. Yaconelli, S. Levine, R. Calandra, and K. S. J. Pister, "Low-level control of a quadrotor with deep model-based reinforcement learning," *IEEE Robotics and Automation Letters*, vol. 4, no. 4, pp. 4224–4230, 2019.

[9] D. S. Drew, **Lambert, Nathan**, C. B. Schindler, and K. S. Pister, "Toward controlled flight of the ionocraft: A flying microrobot using electrohydrodynamic thrust with onboard sensing and no moving parts," *IEEE Robotics and Automation Letters*, vol. 3, no. 4, pp. 2807–2813, 2018.

[10] K. B. Vinayakumar, V. Gund, **Lambert, Nathan**, S. Lodha, and A. Lal, "Enhanced lithium niobate pyroelectric ionizer for chip-scale ion mobility-based gas sensing," *Proceedings of IEEE Sensors*, no. 1, pp. 3–5, 2017.

FELLOWSHIPS AND AWARDS

Graduate

2018	NDSEG Graduate Research Fellowship Program Top 200
2018	NSF Graduate Research Fellowship Program Honorable Mention
2017	NSF Graduate Research Fellowship Program Honorable Mention

Undergraduate

2017	Cornell Rowing Charles E. Courtney Award
2016	Tau Beta Pi Scholarship
2016	Southeastern New England Defense Industry Alliance STEM Scholarship II
2016	Cornell Athletics 400 Club Induction
2015	Southeastern New England Defense Industry Alliance STEM Scholarship I
2015	Tau Beta Pi Induction
2015	Eta Kappu Nu Induction
2014	American Society of Engineering Education SMART Scholar Award

TEACHING

Graduate

Fall 2020	Teaching Assistant for CS188: Introduction to Artificial Intelligence
Summer 2020	Teaching Assistant for CS188: Introduction to Artificial Intelligence
Spring 2020	**Instructor for CS188: Introduction to Artificial Intelligence**
Fall 2019	Teaching Assistant for EE 16B: Designing Information Devices and Systems II

Undergraduate

Spring 2017	Grader for ECE 4320: Integrated Micro Sensors and Actuators
Fall 2016	Teaching Assistant for ECE 3250: Mathematics of Signal and System Analysis

INVITED TALKS

March 2021	Cornell Robotics Seminar, *Virtual.*

PEER REVIEW

International Conference on Machine Learning (ICML) 2020 • International Conference on Learning Representations (ICLR) 2021 • Conference on Robot Learning (CORL) 2020 • Robotics and Automation Letters (RA-L) 2019, 2020 • International Conference on Robotics and Automation (ICRA) 2021, 2020 • Transactions on Cybernetics 2020

SERVICE

Graduate

Fall 2020	Founder of UC Berkeley EECS Equal Access to Application Assistance (EAAA) Program
Fall 2020	Wellness Coordinator: UC Berkeley Electrical Engineering Graduate Student Assembly (EEGSA)
Fall 2017	Bay Area Scientists in Schools

Undergraduate

Fall 2016	Cornell *Splash!* Program (with Eta Kappu Nu Honors Society)
July 2016	CATALYST Summer Engineering Diversity Program
2015-2017	Big Red Leadership Institute

EXTRACURRICULARS

Cornell Varsity Lightweight Rowing | Student-Athlete
2013-2017 | Coach Chris Kerber | Cornell University | Ithaca, NY

Berkeley Lightweight Crew | Novice Rowing Coach
2017-2018 | University of California, Berkeley | Berkeley, CA