

# Laura Smith

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OBJECTIVE	My goal is to enable systems to learn from their interactions in the real world, with an eye towards endowing machines with human-like intelligence and capabilities.	
EDUCATION	<i>Ph.D. Student in Computer Science</i>	8/20 – 5/25 (expected)
	University of California, Berkeley	GPA: 3.947/4.00
	<i>B.A. in Computer Science</i>	2016 – 2020
	University of California, Berkeley	GPA: 3.967/4.00
	<i>Highest Distinction in General Scholarship</i>	
	<i>Relevant Coursework: Deep Reinforcement Learning (A<sup>+</sup>), Deep Unsupervised Learning (A<sup>+</sup>), Information Theory &amp; Coding* (A<sup>-</sup>), Convex Optimization* (A), Optimization &amp; Approximation (A<sup>+</sup>), Machine Learning (A<sup>+</sup>), Machine Learning Systems (A<sup>+</sup>), Linear System Theory (A), Real Analysis (A), Artificial Intelligence (A<sup>+</sup>), Probability &amp; Random Processes (A), Discrete Math &amp; Probability Theory (A<sup>+</sup>)</i>	
AWARDS	<i>Fellowships</i>	
	<ul style="list-style-type: none"><li>• <i>Google PhD Fellowship</i>, current</li><li>• <i>National Science Foundation Graduate Research Fellowship</i>, 2020-2023</li><li>• <i>EECS Excellence Award</i>, supplementary fellowship for outstanding academic record, UC Berkeley, 2020-2021</li></ul>	
	<i>Honors</i>	
	<ul style="list-style-type: none"><li>• <i>CRA Outstanding Undergraduate Researcher Award Finalist</i>, awarded to roughly 20 graduating seniors in computer science from North America, 2019</li><li>• <i>NeurIPS Robot Learning Workshop Travel Award</i>, DeepMind, 2019</li><li>• <i>Upsilon Pi Epsilon CS Honors Society</i>, UC Berkeley, 2018</li><li>• <i>The Leadership Award</i>, Cal Alumni Association, 2016, 2017, 2019</li></ul>	
RESEARCH	<i>Graduate Student Researcher</i>	August 2020 – present
	<a href="#">Robotics and AI Lab (RAIL)</a> , advised by Sergey Levine Developing intelligent, autonomous systems that learn continually in the real world.	
	<i>Undergraduate Researcher</i>	May 2018 – May 2020
	<a href="#">Robot Learning Lab (RLL)</a> , advised by Pieter Abbeel Developed sample-efficient, vision-based methods, via representation learning and model-based approaches, to enable robot learning in real-world domains.	
PREPRINTS	<b>Laura Smith*</b> , Yunhao Cao, Sergey Levine. Efficient Real-World RL for Legged Locomotion via Adaptive Policy Regularization. <i>submitted to ICRA, 2024</i> . <a href="#">[website]</a>	
	Annie Chen*, Govind Chada*, <b>Laura Smith</b> , Archit Sharma, Zipeng Fu, Sergey Levine, Chelsea Finn. Adapt On-the-Go: Behavior Modulation for Single-Life Robot Deployment. <i>submitted to ICLR, 2024</i> . <a href="#">[OpenReview]</a>	

Rafael Rafailov\*, Kyle Beltran Hatch\*, Anikait Singh, Aviral Kumar, **Laura Smith**, Ilya Kostrikov, Philippe Hansen-Estruch, Victor Kolev, Philip J. Ball, Jiajun Wu, Sergey Levine, Chelsea Finn. D5RL: Diverse Datasets for Data-Driven Deep Reinforcement Learning. *submitted to ICLR, 2024*. [\[OpenReview\]](#)

## PUBLICATIONS

**Laura Smith**, J. Chase Kew, Tianyu Li, Xue Bin Peng, Sehoon Ha, Jie Tan, Sergey Levine. Learning and Adapting Agile Locomotion Skills by Transferring Experience. *published at RSS, 2023*. [\[website\]](#)

**Laura Smith\***, Ilya Kostrikov\*, Sergey Levine. A Walk in the Park: Learning to Walk in 20 Minutes With Model-Free Reinforcement Learning. *published at Robotics Science and Systems (RSS) Demo Track, 2023*. [\[website\]](#)

Kevin Zakka, Philipp Wu, **Laura Smith**, Nimrod Gileadi, Taylor Howell, Xue Bin Peng, Sumeet Singh, Yuval Tassa, Pete Florence, Andy Zeng, Pieter Abbeel. RoboPianist: Dexterous Piano Playing with Deep RL. *published at CoRL, 2023*. [\[website\]](#)

Philip J. Ball\*, **Laura Smith\***, Ilya Kostrikov\*, Sergey Levine. Efficient Online Reinforcement Learning with Offline Data. *published at ICML, 2023*. [\[arXiv\]](#)

**Laura Smith**, J. Chase Kew, Xue Bin Peng, Sehoon Ha, Jie Tan, Sergey Levine. Legged Robots that Keep on Learning: Fine-Tuning Locomotion Policies in the Real World. *published at ICRA, 2022*. [\[website\]](#)

Vitchyr H. Pong, Ashvin Nair, **Laura Smith**, Catherine Huang, Sergey Levine. Offline Meta-RL with Online Self-Supervision. *published at ICML, 2022*. [\[website\]](#)

Kimin Lee, **Laura Smith**, Anca Dragan, Pieter Abbeel. B-Pref: Benchmarking Preference-Based Reinforcement Learning. *published at NeurIPS 2021, Datasets and Benchmarks Track*. [\[website\]](#)

**Laura Smith\***, Kimin Lee\*, Pieter Abbeel. PEBBLE: Feedback-Efficient Interactive RL via Relabeling Experience and Unsupervised Pre-Training. *published at ICML 2021 as a long oral presentation (166/5513=3.0%)*. [\[website\]](#)

**Laura Smith**, Nikita Dhawan, Marvin Zhang, Pieter Abbeel, Sergey Levine. AVID: Learning Multi-Stage Tasks via Pixel-Level Translation of Human Videos. *published at RSS, 2020*. [\[website\]](#)

Marvin Zhang\*, Sharad Vikram\*, **Laura Smith**, Pieter Abbeel, Matthew Johnson, Sergey Levine. SOLAR: Deep Structured Latent Representations for Model-Based Reinforcement Learning. *published at ICML, 2019*. [\[website\]](#)

### Press Coverage

- [Robot dog learns to walk on tough terrain in just 20 minutes](#), by Alex Wilkins. New Scientist. 26 August 2022.
- [A technique that allows legged robots to continuously learn from their environment](#), by Ingrid Fadelli. Tech Xplore. 1 November 2021.
- [AVID: a framework to enhance imitation learning in robot](#), by Ingrid Fadelli. Tech Xplore. 3 January 2020.
- [Researchers develop new framework to teach robots](#), by David Curry. RTInsights. 13 January 2020.

PROFESSIONAL ACTIVITIES	<i>Talks</i>	
	• BAIR Robotics & Systems Workshop	2022
	• Google-BAIR Commons Symposium	2021, 2022
	<i>Reviewing</i>	
	• IEEE Robotics and Automation Letters (RA-L)	2023
	• Conference on Neural Information Processing Systems (NeurIPS) <i>Benchmarks and Datasets Track</i>	2022
	• International Conference on Intelligent Robots and Systems (IROS)	2020, 2022
	• International Conference on Robotics and Automation	2022
	• International Conference on Learning Representations (ICLR) <i>Generalizable Policy Learning in Physical World Workshop</i>	2022
	<i>Advising — undergraduate research</i>	
SERVICE & OUTREACH	• Zhiwei Zhang	
	• Yiming Ni	
	• Yunhao Cao	
	• Stefanie Gschwind	
	<b>UC Berkeley Women in EECS</b> , Board Member	2022 – present
	Organizing events for female graduate students in computer science and engineering.	
	<b>AI Research Mentoring Program</b> , Co-Organizer	2020 – present
	Coordinating a research mentoring program for underrepresented undergraduates.	
	<b>Robot Learning Lab Outreach</b> , Co-Organizer	2018 – 2020
	Organized lab tours and assisted with demonstrations at large-scale events.	
	<b>Upsilon Pi Epsilon</b> , Service Committee Member	2018
	Held weekly open office hours for lower-division, undergraduate CS courses.	
TEACHING	<i>Student Instructor</i>	
	• <i>CS 189/289A: Introduction to Machine Learning</i>	Spring 2020
	• <i>CS 287: Advanced Robotics</i>	Fall 2019
	• <i>CS 188: Introduction to Artificial Intelligence</i>	Fall 2018, Spring 2019
	<i>Course Staff (Reader, Tutor, Lab Assistant)</i>	
	• <i>CS 70: Discrete Mathematics &amp; Probability Theory</i>	Spring 2018
	• <i>CS C8: Data Science</i>	Fall 2017
	• <i>CS 61B: Data Structures &amp; Algorithms</i>	Spring 2016
	<i>Lectures</i>	
	• <i>Imitation Learning</i> , CS 287: Advanced Robotics, UC Berkeley	Fall 2019
	• <i>Robotics Talk</i> , for CS Education Day	Winter 2018
	• <i>Artificial Intelligence (Special Topics)</i> , CS 10, UC Berkeley	Fall 2018