

Li Ding

CONTACT	✉ lding@{umass.edu, mit.edu}	📍 San Jose, CA	🌐 https://lding.info
SUMMARY	I develop efficient learning algorithms for large models, focusing on alignment (RLHF) and open-endedness.		
EDUCATION	University of Massachusetts Amherst <i>Ph.D. in Computer Science</i>	Amherst, MA	2020.9 - (expected) 2024.9
	<ul style="list-style-type: none">• Advisor & Mentors (UMass CICS): Prof. Lee Spector, Prof. Scott Niekum, Prof. Subhansu Maji.• Collaborators: Prof. Jeff Clune (UBC, DeepMind), Joel Lehman (Stability AI), Masrour Zoghi (Google).		
	Massachusetts Institute of Technology <i>Graduate Study in Computer Science (non-degree)</i>	Cambridge, MA	2019.9 - 2020.1
	University of Rochester <i>M.S. in Data Science</i>	Rochester, NY	2016.6 - 2017.5
	<ul style="list-style-type: none">• Advisor: Prof. Chenliang Xu.		
EXPERIENCE	Google Research <i>Research Intern</i>	US, Remote	2023.6 - 2023.9
	<ul style="list-style-type: none">• Project: Meta-optimization for knowledge distillation.• Hosts: Masrour Zoghi & Maryam Karimzadehgan.		
	Carper (Stability AI) <i>Student Collaborator</i>	US, Remote	2023.2 - 2023.6
	<ul style="list-style-type: none">• Project: Optimization with diversity from human feedback.• Host: Joel Lehman.		
	Meta <i>Research Scientist Intern</i>	Burlingame, CA	2022.5 - 2022.8
	<ul style="list-style-type: none">• Project: Image segmentation for AR/VR.• Hosts: Wenliang Zhao & Hang Zhang.		
	Massachusetts Institute of Technology <i>Research Affiliate</i> <i>Research Engineer</i>	Cambridge, MA	2020.7 - 2021.6 2017.9 - 2020.6
	<ul style="list-style-type: none">• Project: Deep learning for driving scene perception and driver monitoring systems.• PIs: Lex Fridman & Bryan Reimer.		
PUBLICATIONS (SELECTED)	<ul style="list-style-type: none">• L. Ding, J. Zhang, J. Clune, L. Spector, and J. Lehman, “Quality diversity through human feedback,” in <i>NeurIPS: Workshop on Agent Learning in Open-Endedness (Spotlight)</i>, 2023• L. Ding, M. Zoghi, G. Tennenholtz, and M. Karimzadehgan, “Ever evolving evaluator: Towards flexible and reliable meta-optimization for knowledge distillation,” in <i>NeurIPS: Workshop on Adaptive Experimental Design and Active Learning in the Real World</i>, 2023• L. Ding, E. Pantridge, and L. Spector, “Probabilistic lexicase selection,” in <i>Proceedings of the Genetic and Evolutionary Computation Conference (GECCO)</i>, 2023• L. Ding and L. Spector, “Optimizing neural networks with gradient lexicase selection,” in <i>International Conference on Learning Representations (ICLR)</i>, 2022		

- L. Ding, J. Terwilliger, A. Parab, M. Wang, L. Fridman, B. Mehler, and B. Reimer, “CLERA: A unified model for joint cognitive load and eye region analysis in the wild,” *ACM Transactions on Computer-Human Interaction (TOCHI)*, vol. 30, no. 6, 2023
- L. Ding, J. Terwilliger, R. Sherony, B. Reimer, and L. Fridman, “Value of temporal dynamics information in driving scene segmentation,” *IEEE Transactions on Intelligent Vehicles (T-IV)*, 2021
- L. Ding and C. Xu, “Weakly-supervised action segmentation with iterative soft boundary assignment,” in *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018
- L. Fridman, H. Schmidt, J. Terwilliger, and L. Ding, “Human interaction with deep reinforcement learning agents in virtual reality,” in *NeurIPS: Deep Reinforcement Learning Workshop*, 2018

FUNDING,	Conference Scholarship (\$3,000), <i>Google</i> .	2023
HONORS, AND	SOAR (Supporting Open Access Research) Fund (\$1,200), <i>UMass Amherst</i> .	2023
AWARDS	4th Place (among 150 teams, top 3%), <i>MIT Miniplaces Challenge</i> .	2019
	Graduate Tuition Scholarship (\$20,000), <i>University of Rochester</i> .	2016
	Meritorious Winner (top 5%), <i>COMAP’s Mathematical Contest In Modeling</i> .	2015

TEACHING	<i>University of Massachusetts Amherst</i>	
	• TA for COMPSCI 230: Computer Systems Principles.	2021
	<i>Massachusetts Institute of Technology</i>	
	• TA for 6.S094: Deep Learning for Self-Driving Cars.	2018 - 2019
	• TA for 6.S093: Human-Centered Artificial Intelligence.	2019
	• TA for 6.S099: Artificial General Intelligence.	2018
	• Co-instructor (w/ Tom Bertalan) for MIT Robocar Workshop.	2018

SERVICES	ACADEMIC	
	• Ph.D. Admissions Committee (UMass CICS)	2024

	CONFERENCE REVIEWER / PROGRAM COMMITTEE	
	• International Conference on Learning Representations (ICLR)	2024
	• Conference on Neural Information Processing Systems (NeurIPS)	2023
	• International Conference on Computer Vision (ICCV)	2023
	• Conference on Computer Vision and Pattern Recognition (CVPR)	2023 - 2024
	• British Machine Vision Conference (BMVC)	2020 - 2021, 2023

	JOURNAL REVIEWER	
	• IEEE Transactions on Intelligent Vehicles	
	• Quantum Machine Intelligence	
	• Pattern Recognition	

OPEN SOURCE	• <code>google-research/ev3</code> : Core contributor of EV3 (a system for meta-learning optimization in JAX).	
PROJECTS	• <code>facebookresearch/d2go</code> : Contributed to D2Go (a system for efficient model training and deployment on mobile platforms).	
	• <code>pyribs</code> : Contributor of pyribs, a bare-bones library for quality diversity optimization.	
	• <code>mit-deep-learning</code> : Created open-access tutorials and coding assignments for MIT Deep Learning courses (9k+ stars on Github).	
	• MIT AI Podcast: Prepared interview materials for an open-access podcast hosted by Lex Fridman (now the <i>Lex Fridman Podcast</i> , ranked #1 on Apple Podcasts technology category).	