Li Ding

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EDUCATION	**University of Massachusetts Amherst**	2020.9 - 2024.7
	Ph.D. in Computer Science	Advisor: Lee Spector
	• Dissertation: "Optimization with intrinsic diversity: Towards generalizable, safe, and open-ended learning".	
	• Committee: Lee Spector, Scott Niekum, Subhransu Maji, Jeff Clune.	
	Massachusetts Institute of Technology	2019.9 - 2020.1
	Graduate Study in EECS (non-degree)	
	University of Rochester	2016.6 - 2017.5
	M.S. in Data Science	Advisor: Chenliang Xu
WORK EXPERIENCE	**Google**	2024.7 - present
	Software Engineer - AI/ML	
	• Multimodal LLMs and on-device generative AI.	
	Massachusetts Institute of Technology	2017.9 - 2020.6
	Research Engineer	
	• Deep learning for autonomous driving and cognitive modeling.	
INTERNSHIP	**Google**	2023.6 - 2023.9
	Research Intern	
	• Meta-learning and knowledge distillation for foundation models.	
	Meta	2022.5 - 2022.8
	Research Scientist Intern	
	• Vision transformer for AR/VR applications.	

SELECTED PUBLICATIONS

GOOGLE SCHOLAR

- R. Boldi, L. Ding, L. Spector, and S. Niekum, "Pareto-optimal learning from preferences with hidden context," *arXiv preprint (under review)*, 2024.
- L. Ding, J. Zhang, J. Clune, L. Spector, and J. Lehman, "Quality diversity through human feedback: Towards open-ended diversity-driven optimization," in **ICML**, 2024.
- L. Ding, M. Zoghi, G. Tennenholtz, and M. Karimzadehgan, "Ever evolving evaluator: Towards flexible and reliable meta-optimization for knowledge distillation," in **NeurIPS**: *RealML Workshop*, 2023.
- L. Ding, E. Pantridge, and L. Spector, "Probabilistic lexicase selection," in **GECCO**, 2023.
- L. Ding and L. Spector, "Optimizing neural networks with gradient lexicase selection," in **ICLR**, 2022.
- L. Fridman, L. Ding, B. Jenik, and B. Reimer, "Arguing machines: Human supervision of black box AI systems that make life-critical decisions," in **CVPR** *Workshops*, 2019.
- L. Ding and C. Xu, "Weakly-supervised action segmentation with iterative soft boundary assignment," in **CVPR**, 2018.

TEACHING	• TA for MIT 6.S094: Deep Learning for Self-Driving Cars.	2018 - 2019
	• Co-instructor (w/ Tom Bertalan) for MIT Robocar Workshop.	2018
COMMUNITY	• Reviewer for ICLR, NeurIPS, JMLR, CVPR, ICCV, ECCV, *etc.*	2022 - present
	• Ph.D. Admissions Committee (UMass Amherst CICS).	2024

OPEN SOURCE PROJECTS

- `google-research/ev3`: A meta-learning optimization framework in JAX.
- `pyribs`: An open-source library for quality diversity optimization.
- `mit-deep-learning`: Tutorials and coding assignments for MIT Deep Learning courses (10k+ stars).
- `MIT AI Podcast`: now the *Lex Fridman Podcast*, ranked #1 on Apple Podcasts (technology category).

SKILLS   Python, C++, JavaScript, PyTorch, JAX, Tensorflow, Git, LLMs (instruction-tuning, LoRA, RLHF, *etc.*).