ICLR 2018.

EDUCATION	Stanford University, Ph.D. in Computer Science.Advised by: Prof. John Duchi.	Sept 2018-Dec 2021		
	 Thesis: Advancing optimization to address the challenges of modern machine learning. 			
	 Stanford University, M.S. in Computer Science. GPA: 4.04 Advised by: Prof. Stefano Ermon. 	Sept 2015-June 2018		
	• Relevant Coursework: Machine Learning, Stochastic Control, Convex Optimization (I and II), Convolutional Neural Networks, Graphical Models and Automated Reasoning.			
	 Ecole Polytechnique, <i>Diplome d'ingenieur</i>. Major GPA: 3.9 France's top university for sciences and engineering. Ranked #13 at the nationwide entrance exam. 	Sept 2012-July 2015		
	• Relevant Coursework: Game Theory, Data Science, Random Algorithms, Numer mization, Real and Complex Analysis, Distribution Theory, Algorithms and Prog			
	Lycee Louis-Le-Grand , <i>Preparatory Program</i> . GPA: 4.0 Two-year intensive program leading to the entrance exams to the French Grandes Ecol Mathematics, Physics and Computer Science track.	Sept 2010-June 2012 les for scientific studies.		
Professional Experience	OpenAI, San Francisco. <i>Member of Technical Staff.</i> Leading the Optimization team.	March 2022-		
	Google Research, New York (remote). <i>Research Intern.</i> Worked with Ananda Theertha Suresh, Satyen Kale and Mehryar Mohri on differentia	Summer 2020 l privacy.		
	Google Brain, Mountain View. <i>Research Intern.</i> Worked with Jascha Sohl-Dickstein and Matt Hoffman on MCMC methods.	Summer 2017		
	Facebook Applied Machine Learning Group, Menlo Park. Intern Core Machine Learning Team. Bandits and RL methods applied to active learning for	Summer 2016 text classification.		
	Shift Technology, Paris. <i>Intern.</i> ML startup. Bandit methods for anomaly detection and labeling of unbalanced da currently in production for several large insurance companies in fraud detection.	March 2015-July 2015 tasets. Algorithms are		
	Microsoft, Paris. <i>Intern.</i> Analyzed and unearthed valuable analytics from the Big-Data Platform (Cosmos). L learning to predict the user churn rate for the XBox Music service.	Summer 2014 ed a project in machine		
IN SUBMISSION [1] OR PREPARATION	C. Cheng, J. Duchi, D. Levy. Geometry and complexity in the Gaussian Sequence Model and Stochastic Convex Optimization. <i>In preparation (journal paper)</i> .			
[2]	D. Levy, J. Duchi, L. Schmidt, Y. Carmon. A phenomenological analysis of memori <i>In preparation.</i>	zation in deep learning.		
Conference [3] Publications	D. Levy* , Z. Sun*, K. Amin, S. Kale, A. Kulesza, M. Mohri, A.T. Suresh. Learning wi privacy. <i>NeurIPS 2021. (* indicates equal contribution.)</i>	th user-level differential		
[4]	H. Asi*, D. Levy *, J. Duchi. Adapting to function difficulty in private optimization. <i>N</i>	leurIPS 2021.		
[5]	C. Zhou*, D. Levy* , M. Ghazvininejad, X. Li, G. Neubig. Distributionally robus translation. <i>EMNLP 2021</i> .	st multilingual machine		
[6]	D. Levy* , Y. Carmon*, J. Duchi, A. Sidford. Large-Scale Methods for Distributional <i>NeurIPS 2020</i> .	ly Robust Optimization		
[7]	D. Levy , J. Duchi. Necessary and Sufficient Conditions for Gradient Algorithms. <i>Neu</i> oral presentation, top 36 out of 6743 submissions.	rIPS 2019. Selected for		
[8]	S. Eismann, D. Levy , R. Shu, S. Barztsch, S. Ermon. Bayesian Optimization and Attr 2018.	ibute Adjustement. UAI		
[9]	D. Levy , M.D. Hoffman, J. Sohl-Dickstein. Generalizing Hamiltonian Monte Carlo <i>ICLR</i> 2018	with Neural Networks.		

[[10]	D. Levy , S. Ermon. Deterministic Policy Optimization by Combining Pathwise and Score Function Es for Discrete Action Spaces. <i>AAAI 2018</i> .		
[[11]	S. Mussman*, D. Levy* , S. Ermon. Fast Amortized Inference and Learning in Log-lin domly Perturbed Nearest Neighbor Search. <i>UAI 2017</i> .	ear Models with Ran-	
[[12]	Z. Xie, S.I.Wang, J. Li, D. Levy , A. Nie, D. Jurafsky, A.Y. Ng. Data Noising as Smooth Language Models. <i>ICLR 2017</i> .	ing in Neural Network	
Workshop [13] Publications		D. Levy , S. Ermon. Trading-off Learning and Inference in Deep Latent Variable Mod <i>tainty in Deep Learning Workshop</i> .	els. UAI 2018 Uncer-	
[[14]	D. Levy , D. Chen, S. Ermon. LSH Softmax: Sub-Linear Learning and Inference of the S Architectures. <i>NeurIPS 2017 Deep Learning: Bridging Theory and Practice Workshop</i> .		
[[15]	D. Levy , A. Jain. Breast Mass Classification from Mammograms using Deep Convolution NeurIPS 2016 Machine Learning for Healthcare Workshop.	onal Neural Networks.	
Honors		 Ranked 13th nationally at the Polytechnique entrance exam. Selected for the Google Brain Residency Program in 2017 (≈ top 1% of applicants). Selected for an oral presentation at NeurIPS 2019 (top 0.5% of submissions). Facebook Fellowship 2020 finalist (top 4% of applicants). Nominated by Stanford University for the Google Fellowship (2 students per university). 		
Invited Talks		 University of Toronto, Prof. Nicolas Papernot's group – 2021. Simons Institute, Reading Group – 2020. Neural Information Processing Systems, Vancouver, Canada – 2019. Google Brain, Mountain View – 2018. New York University, Prof. Joan Bruna's group – 2017. Massachusetts Institute of Technology, Prof. Tamara Broderick's group – 2017. UC Berkeley, Prof. Laurent El-Ghaoui's group – 2017. Facebook AI Research Paris – 2017. 		
PROFESSIONAL Service		 Journal reviewer: SIAM Journal on Optimization (SIOPT). Conference reviewer: ICML (2019, 2020, 2021) ICLR (2019, 2020), AAAI (2020), NeurIPS (2020, 2021). Workshop reviewer: Advances in Approximate Bayesian Inference (at NeurIPS 2018), Relational Representational Learning (at NeurIPS 2018). 		
TEACHING		EE364A Convex Optimization. <i>Teaching Assistant.</i> CS229 Machine Learning. <i>Teaching Assistant.</i>	Winter 2021 Fall 2016	
		 Education Nationale, Aulnay-Sous-Bois Full-time Teaching Assistant. Priority Action Zone school in one of Paris' economically deprived suburbs. Tutored struggling high-school students in sciences. Mentored them individually in overcoming their ordeals. Supervised remedial-work sessions in small groups. 	Sept 2012-Apr 2013	
LANGUAGES		Python, TensorFlow, PyTorch, Java, OCaml, PHP, HTML/CSS.		
HOBBIES		Sports: Swimming, Water Polo, Table Tennis. Arts: Piano, Violin, Drawing, Painting.		