

Aaron Lou

al968@cornell.edu | aaronlou.com

Education	Cornell University B.A. in Computer Science, B.A. in Mathematics Ithaca, NY GPA: 3.96/4.0	Aug 2017 - May 2021
Conference Publications	Aaron Lou* , Derek Lim*, Isay Katsman*, Leo Huang*, Qingxuan Jiang, Ser-nam Lim, & Christopher De Sa. “Neural Manifold Ordinary Differential Equations”. Will appear at <i>NeurIPS 2020: Thirty-fourth Conference on Neural Information Processing Systems</i> , December 2020. Aaron Lou* , Isay Katsman*, Qingxuan Jiang*, Serge Belongie, Ser-nam Lim, & Christopher De Sa. “Differentiating through the Fréchet Mean”. In <i>ICML 2020: the Thirty-seventh International Conference on Machine Learning</i> , July 2020.	
Workshop Publications	Horace He, Aaron Lou* , Qingxuan Jiang*, Isay Katsman*, Serge Belongie, & Ser-nam Lim. “Adversarial Example Decomposition”. In <i>SPML 2019: ICML Workshop on Security and Privacy in Machine Learning</i> , June 2019.	
Research Experience	Facebook AI Research Intern New York, NY <ul style="list-style-type: none">• Topology and data augmentation w/ Ser-Nam Lim.• Manifold learning w/ Brandon Amos & Maximilian Nickel Cornell University Vision and Learning Undergraduate Researcher Ithaca, NY <ul style="list-style-type: none">• Geometric machine learning w/ Christopher De Sa.• Adversarial examples w/ Serge Belongie & Ser-Nam Lim.	May 2020 - Aug 2020 Aug 2018 - Present
Industry Experience	Google Software Engineering Intern Mountain View, CA <ul style="list-style-type: none">• Google Maps incognito mode w/ Satwika Sarkar	May 2019 - Aug 2019
Awards	ICPC North American Championship Bronze Medal ICPC Greater New York Regional Champion Putnam Exam Top 250 Cornell Freshman Math Exam Champion	Feb 2020 Oct 2019 Dec 2018 May 2018
Teaching	CS 5199 - Competitive Programming TA for CS 2802 - Honors Discrete Structures	Spring 2019, Fall 2019 Spring 2019

Service	Mentorship	
	CUVL Co-President	May 2020 - Present
	– Led organization in promoting and providing resources for undergraduate research in machine learning.	
	Community Contributions	
	NeurIPS 2020 DiffGeo4DL Workshop - Reviewer	
	NeurIPS 2020 - Secondary Reviewer	
Invited Talks	Spotlight talk at ICML INNF Workshop	Jul 2020
Graduate Coursework	Completed during undergrad at Cornell (6xxx is PhD level)	
	<ul style="list-style-type: none"> • CS 6784 – Deep Generative Models • CS 6787 – Advanced Machine Learning Systems • CS 6820 – Analysis of Algorithms • Math 6110 – Real Analysis • Math 6120 – Complex Analysis • Math 6310 – Abstract Algebra I • Math 6320 – Abstract Algebra II • Math 6410 – Enumerative Combinatorics • Math 6520 – Differentiable Manifolds • Math 6710 – Probability Theory I • ORIE 6300 – Mathematical Programming I 	