










education	Cornell University , Ithaca, NY	
	M.S. in Computer Science, Minor in Applied Mathematics Advisor: Anil Damle GPA: 4.04/4.30	Aug 2021 – May 2023
	B.S. in Computer Science (Honors), <i>Summa Cum Laude</i> Advisor: Austin Benson GPA: 4.14/4.30	Aug 2018 – May 2021
selected coursework	Convex Analysis, Statistical Principles, Matrix Computations, Numerical Methods, Linear Models, Statistical Learning Theory, Probability, Algorithms, Network Theory, Machine Learning, Compilers	
preprints & publications	Edge Proposal Sets for Link Prediction   (preprint) <i>Abhay Singh, Qian Huang, Sijia Linda Huang, Omkar Bhalerao, Horace He, Ser-Nam Lim, Austin Benson</i>	
	Combining Label Propagation and Simple Models Out-performs GNNs   (ICLR 2021) <i>Qian Huang, Horace He, Abhay Singh, Ser-Nam Lim, Austin Benson</i>	
	Better Set Representations For Relational Reasoning   (NeurIPS 2020) <i>Qian Huang, Horace He, Abhay Singh, Yan Zhang, Ser-Nam Lim, Austin Benson</i>	
professional experience	Citadel, Global Quantitative Strategies , Chicago, IL <i>Incoming Quantitative Research Analyst</i>	Aug 2023 –
	• Portfolio Optimization Team	
	<i>Quantitative Research Intern</i>	June 2022 – Aug 2022
	• Portfolio Prediction	
	<i>Software Engineering Intern</i>	June 2021 – Aug 2021
	• Portfolio Optimization Robustness and Latency	
	Yext , New York, NY <i>Software Engineering Intern</i>	June 2020 – Aug 2020
	• Application Security & Code Vulnerability	
	Morgan Stanley , New York, NY <i>Technology Summer Analyst</i>	June 2019 – Aug 2019
	• Efficient Data Pipelines	
teaching experience	Guest Lecturer	
	CS 4850: Mathematical Foundations of Data Science	March 2022
	Head Teaching Assistant	
	CS 6210: Matrix Computations, CS 4850: Mathematical Foundations of Data Science, CS 4820: Introduction to Analysis of Algorithms, CS 4780: Introduction to Machine Learning	
service & leadership	Cornell University Artificial Intelligence  <i>Co-President</i>	Aug 2021 – May 2022
	Reviewer: ICML 2022, ICLR 2022, NeurIPS 2021	
projects	Prediction Correlation via Graph Inference 	
	• Improved predictive performance by learning a graph topology underlying a set of data points	
	1-Lipschitz Deep Equilibrium Models 	
	• Enforced uniqueness and existence of fixed-point solution from root-finding neural network	
	Few-Shot Instance Segmentation 	
	• Designed architecture to perform proposal-free few-shot instance segmentation	
	Continual Learning with Lottery Tickets 	
	• Demonstrated effectiveness of novel training scheme to resist catastrophic forgetting	
	Xi Compiler	
	• Wrote optimized compiler to emit x86 assembly instructions, includes dataflow analysis and non-trivial register allocation; ~10,000 lines of code	