












education	Cornell University , Ithaca, NY M.S. in Computer Science Advisor: Anil Damle GPA: 4.00/4.30 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
coursework	Matrix Computations, Convex Analysis, Numerical Methods, Probability, Algorithms, Network Theory, Computer Vision, Statistical Distances, Machine Learning, Real Analysis, Linear Algebra, Compilers
preprints & publications	Edge Proposal Sets for Link Prediction   (under submission) <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>Quantitative Research Intern (Incoming)</i> • Portfolio Optimization Team June 2022 – Aug 2022
	<i>Software Engineering Intern</i> • Portfolio Optimization Robustness and Latency June 2021 – Aug 2021
	Yext , New York, NY <i>Software Engineering Intern</i> • Application Security & Code Vulnerability June 2020 – Aug 2020
	Morgan Stanley , New York, NY <i>Technology Summer Analyst</i> • Efficient Data Pipelines June 2019 – Aug 2019
teaching experience	Guest Lecturer CS 4850: Mathematical Foundations of Data Science March 2022
	Head Teaching Assistant CS 4850: Mathematical Foundations of Data Science CS 4820: Introduction to Analysis of Algorithms CS 4780: Introduction to Machine Learning Jan 2022 – May 2022 Aug 2021 – Dec 2021 Aug 2020 – May 2021
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