

education	<b>Cornell University</b> , Ithaca, NY M.S. in Computer Science Advisor: Anil Damle 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	Numerical Methods (Graduate), Probability (Graduate), Statistical Distances (Graduate), Algorithms (Graduate), Network Theory (Graduate), Computer Vision (Graduate), Machine Learning, Real Analysis, Linear Algebra, Compilers
preprints & publications	<b>Edge Proposal Sets for Link Prediction</b>   (under submission) <i>Abhay Singh, Qian Huang, Sijia Linda Huang, Omkar Bhalerao, Horace He, Ser-Nam Lim, Austin Benson</i>  <b>Combining Label Propagation and Simple Models Out-performs GNNs</b>   (ICLR 2021) <i>Qian Huang, Horace He, Abhay Singh, Ser-Nam Lim, Austin Benson</i>  <b>Better Set Representations For Relational Reasoning</b>   (NeurIPS 2020) <i>Qian Huang, Horace He, Abhay Singh, Yan Zhang, Ser-Nam Lim, Austin Benson</i>
professional experience	<b>Citadel</b> , Global Quantitative Strategies, Chicago, IL <i>Incoming Quantitative Research Intern</i> June 2022 – Aug 2022 • Portfolio Optimization Team  <i>Software Engineering Intern</i> June 2021 – Aug 2021 • Portfolio Optimization Robustness and Latency  <b>Yext</b> , New York, NY <i>Software Engineering Intern</i> June 2020 – Aug 2020 • Application Security & Code Vulnerability  <b>Morgan Stanley</b> , New York, NY <i>Technology Summer Analyst</i> June 2019 – Aug 2019 • Efficient Data Pipelines
teaching experience	<b>CS 4820: Introduction to Analysis of Algorithms</b> <i>Head Teaching Assistant, Cornell University</i> Aug 2021 - Dec 2021 <i>Teaching Assistant, Cornell University</i> Aug 2019 - Dec 2019  <b>CS 4780: Introduction to Machine Learning</b> <i>Head Teaching Assistant, Cornell University</i> Aug 2020 - May 2021
service & leadership	<b>Cornell University Artificial Intelligence</b> <i>Co-President</i> Aug 2021 - May 2022  <b>Reviewer:</b> ICLR 2022, NeurIPS 2021
projects	<b>1-Lipschitz Deep Equilibrium Models</b>  • Enforced uniqueness and existence of fixed-point solution from root-finding neural network  <b>Few-Shot Instance Segmentation</b>  • Designed architecture to perform proposal-free few-shot instance segmentation  <b>Continual Learning with Lottery Tickets</b>  • Demonstrated effectiveness of novel training scheme to resist catastrophic forgetting  <b>Xi Compiler</b> • Wrote optimized compiler to emit x86 assembly instructions, includes dataflow analysis and non-trivial register allocation; ~10,000 lines of code