

EDUCATION:**M.Eng Computer Science @ Cornell Tech**

August 18' - May 19'

B.S. Computer Science (Music Minor) @ Cornell University

August 14' - May 18'

COURSES:

Startup Studio • Data Science in the Wild • Advanced Topics in Machine Learning • Machine Learning for Intelligent Systems • Machine Learning for Data Science • Computer Vision • Analysis of Algorithms • Data Structures • Object Oriented Programming • Functional Programming • Discrete Mathematics • Digital Logic • Linear Algebra • Data-Driven Web Applications

TECHNICAL SKILLS:

Python • Numpy / Pandas • PyTorch • HTML/CSS/JS/D3 • Arduino • Processing • Grasshopper • Rhino • Carto • SQL • Spark • Java • C

EMPLOYMENT:**• Research Associate | Jenny Sabin Design Lab**

Worked on a software project called RoboSense that enables architects to easily design and use intelligent Arduino controlled end effectors for 6 axis robots in Grasshopper and Rhino. Co-authored two papers that were accepted to SimAUD 2016 and Acadia 2018.

June 16' - June 18'

• Machine Learning Intern | Autodesk

Implemented a variational autoencoder to encode Generative Design shapes as vector representations to calculate similarity and cluster 3D generated models. Utilized traditional computer vision techniques for shape vector representation. Researched a 3D model recommendation system.

June 17' - August 17'

PUBLICATIONS:**• Robosense 2.0: Robotic Sensing and Architectural Ceramic Fabrication | Acadia 2018**

October 18'

Presented the paper in Mexico City and received a Student scholarship award.

• Matrix Architecture: 3D-Printed and Simulated Kirigami Matrices & Auxetic Materials | SimAUD 2017

May 17'

PROJECTS:**• Urban Planning Startup Studio | Cornell Tech**

Jan 19' - Present

Our company Collate provides real estate developers fast and robust socio economic analysis of their building projects. Large building projects in NYC must produce a report on how their project will impact the socioeconomics of the neighborhood. Producing this report can take up to a year and cost a million dollars.

August 17' - May 18'

• Image Captioning Machine Learning Research | Cornell University

I worked on a research project to improve image captioning by implementing a loss function that computes semantic similarity between captions using Word Movers Distance. We were advised by Professor Kilian Weinberger.

ORGANIZATIONS:

January 17' - May 18'

• Survival Skills Instructor | Cornell Outdoor Education

Lead students backpacking and wilderness survival trips in the Finger Lakes Region. Teach students risk management, leadership, group dynamics and how to have fun outdoors!

• Alto II | Cornell Jazz Ensemble

August 16' - May 18'

Perform in two big band jazz shows a year.

• National Outdoor Leadership School

Jun 15' - Jul 15'

Completed a month long backpacking trip in the Talkeetna Mountains of Alaska. Learned leadership skills and interpersonal skills.