

Sruthi Kurada

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EDUCATION

The University of Pennsylvania – Jerome Fisher Program in Management and Technology
B.S.E., Computer Science and Quantitative Finance

Philadelphia, PA
Expected May 2026

Skills: Python – (Pytorch, TensorFlow, Keras), Java, Data Science, Machine Learning, iOS & Android Development

Awards: Zonta International Young Women in Public Affairs (YWPA) International Winner, Google Science Fair Top 100 International Semifinalist, and MA Winner, Taco Bell Live Más Scholarship Winner, Coolidge Senator Scholarship Winner

Activities: Research Assistant @ Mack Institute, Android Dev @ Penn Labs, Contrary Builders Cohort, Penn Data Science

WORK EXPERIENCE

Pfizer

Cambridge, MA

Machine Learning Intern

May 2023 – Current

- Led the design and validation of the first 3D structure-based deep learning models for protein-ligand potency prediction on Pfizer's internal data
- Models will result in improved efficiency, targeted treatment design, and enhanced success rates in clinical trials

PCASO Lab at Penn Medicine

Philadelphia, PA

Surgical Data Scientist

September 2022 – Current

- Leading data science research to analyze kinematic motion and video of robotic Whipple surgery operations with the aim of reducing post-operative complications, which account for approximately 30% of procedures
- Presented to Wharton's Director of Innovation; 1 of 2 students collaborating on initiative to foster entrepreneurial ecosystem

Bayes Mendel Lab at Harvard School of Public Health

Cambridge, MA

Computational Genomics Researcher

September 2020 - Current

- Developing prognostic models to assess patient-specific risk to develop several cancer subtypes (e.g. breast, lung cancer)
- Co-authoring manuscript in production on statistical methods to engineer an "all-cancer subtype" risk assessment model
- Built simulation software to produce realistic genetic data to help train and evaluate the robustness of statistical models

MIT PRIMES - MIT Biomedical Cybernetics Laboratory

Cambridge, MA

Computational Biology Researcher

January 2021 – March 2022

- Led drug discovery research to identify Ergothioneine's potential therapeutic value through *in vitro* and *in silico* protein analysis
- Identified 15 novel protein targets that confirm known biological pathways and discovered pathways impacting 40+ million US patients
- 1st author of manuscript currently being submitted to PLOS Computational Biology journal

Health Informatics Research

Littleton, MA

Data Science Research Lead

March 2018 – April 2021

Parkinson's Disease Diagnostic Classifier (2019 - 2021):

- Developed a classifier that leverages patient voice data to diagnose Parkinson's Disease using a novel, generalizable feature extraction technique
- Classifier outperformed clinical diagnostic accuracy and enables rapid diagnosis (<1 second) vs. clinical timeline of 5 years
- 1st author of a conference paper for presentation at the 2020 IEEE/ACM CHASE Conference (bit.ly/pd-classification)

NON-PROFIT LEADERSHIP

MetroHacks

Cambridge, MA

MetroHacks EmpowHer Executive Director

September 2018 – Current

- Launched [EmpowHer](#) in 2020, a national computer science competition for high school girls - grew the competition to include over 350 student participants and 85 mentors across the country during the COVID-19 pandemic
- Scaled MetroHacks, a non-profit organization dedicated to improving practical STEM education, across the entire East Coast
- Raised >\$20K in scholarships through partnerships with Fortune 500 companies including Microsoft and Staples

EXTRACURRICULAR ACTIVITIES

Wharton Undergraduate Healthcare Club

Philadelphia, PA

Moonshot Factory

September 2022 – Current

- Evaluating biotechnology startups for potential early-stage investment with healthcare partner venture capital funds
- Launching a startup student pitch night in collaboration with other Penn Engineering & entrepreneurship groups
- Hosting 10-week summer incubator program for promising student startups via partnering with mentors from industry & academia