Jonathan Yin

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Education ____

Yale University Sept. 2020 - May 2024

Double major in Computer Science and Statistics & Data Science, GPA: 3.97/4.0

- Selected coursework: Deep Learning, Parallel Programming, Distributed Systems, NLP, Intermediate Machine Learning, Algorithms, Financial Economics, Stochastic Processes, Linear Models, Probability & Statistics Theory, Discrete Math
- Activities: Yale Computer Society, Yale Machine Learning, YHack Logistics Team

Acton-Boxborough Regional High School

Sept. 2016 - Jun. 2020

SALUTATORIAN, GPA: 4.0/4.0

• MIT PRIMES, 3x AIME Qualifier (highest score of 7), USA Computing Olympiad Gold Division, 3x Science Olympiad National medalist

Experience _____

Benchling Jun. 2022 - Aug. 2022

SOFTWARE ENGINEERING INTERN

San Francisco, CA

- Used React, TypeScript, and GraphQL to integrate chemical editor into the flagship electronic lab notebook product, allowing users to easily design and iterate on target molecules or chemical reactions in notebook entries
- · Created API endpoints to convert finalized chemical structures from notebook entries into registered entities usable across the platform
- · Independently scoped out technical milestones and performed extensive unit and end-to-end testing with Mocha and Cypress
- Released feature to enterprise customers as part of September 2022 release

OctantJun. 2021 - Aug. 2021

Machine Learning Intern

Emergville, CA

- · Used graph convolutional networks for molecular property prediction to determine efficacy of drug synthesis pipeline
- · Built similarity search tool to optimize which products to synthesize for secondary screening rounds based on hits from primary screen
- · Applied K-means and UMAP to developed tool to visualize, cluster, and interactively explore high-dimensional molecular features

Broad Institute of MIT and Harvard - Regev Lab

Jan. 2019 - Dec. 2020

Machine Learning Researcher

Cambridge, MA

- · Worked on improving GPCR binding prediction with compressed sensing, Bayesian methods, and machine learning
- · Developed novel deep learning architecture to create more meaningful latent molecular representations
- · Paper accepted and selected for oral presentation at 2020 NeurIPS workshop, Learning Meaningful Representations of Life

Beagle Learning Jul. 2020 - Auq. 2020

SOFTWARE ENGINEERING INTERN

Boston, MA

- · Developed course setup, course overview, and assignment creation pages for inquiry-based online learning platform
- · Worked in React, JavaScript, HTML, and CSS, and released platform to early adopters from various schools and universities

Conferences_

Learning Meaningful Representations for Life

Dec. 2020

NEURAL INFORMATION PROCESSING SYSTEMS (NEURIPS) 2020 WORKSHOP

- Yin J*, Chung H*, Regev A. A multi-view generative model for molecular representation improves prediction tasks (paper)
- · Combined multi-view representation learning with variational autoencoders to improve latent molecular representations (talk)

Skills

Languages Python, TypeScript, C/C++, R, Go, Java, HTML, CSS

Libraries/Frameworks TensorFlow, PyTorch, NumPy, Pandas, Matplotlib, React, Flask, CUDA, Cypress, Mocha