Timothy Li

timothyli@college.harvard.edu | 909.993.7428

in: timothylli | A: timsaur.github.io | Q: timsaur

WORK EXPERIENCE

DRW | QUANTITATIVE TRADING INTERN

June 2021 - Aug 2021 | Chicago, IL

• Incoming trading intern.

FACEBOOK | SOFTWARE ENGINEERING INTERN

June 2020 - Aug 2020 | Menlo Park, CA

- Primary Project Added image recognition functionality to Messenger's search.
- Secondary Project Improved the current multi-task multi-label broadcast flow model used in content sharing by filtering input data and removing positional effect bias.

REX | Data Science Intern

May 2019 - Aug 2019 | Los Angeles, CA

- Primary Project Used a boosting algorithm to implement a housing price prediction model. Used elastic net for feature selection and grid search for parameterization. Combined this model with existing architecture to improve Rex's pricing algorithm.
- Award Engineering intern of the summer.

RELEVANT ACTIVITIES

PERSONAL PROJECTS

- Effects of the Coronavirus Pandemic on Realized Volatility | timsaur.github.io/projects Used the Kolmogorov-Smirnov test to compare realized volatility of the S&P 500.
- Finding Nash Equilibrium in Zero Sum Sequential Games | timsaur.github.io/projects Used a counterfactual regret minimization algorithm to develop an optimal strategy to play Rock, Paper, Scissors and Kuhn's Poker.
- NewStock | newstock2018.herokuapp.com Visualized correlation between stock price and news article sentiment with Kensho Knowledge Graph API.
- TextCompanion | textcompanion.herokuapp.com Performed sentiment analysis on user-inputted text with Watson API.

COURSEWORK

- Harvard | Statistical Inference, Probability, Machine Learning, Data Structures and Algorithms, Applied Linear Algebra and Big Data, Economics and Computation, Theoretical Computer Science, Programming Languages, Micro/Macroeconomics.
- Online | Financial Engineering and Risk Management (Columbia University),
 Deeplearning Specialization (Deeplearning.ai), Real Analysis (Harvey Mudd), Machine
 Learning (Andrew Ng), Foundations of Data Analysis (UTAustinX), Introduction to
 Computational Thinking and Data Science (MITx).
- SciPy 2019 | Bayesian Statistics, Complexity Science, Deep Learning Fundamentals: Forward Model, Differentiable Loss Function, and Optimization Routine.

RESEARCH

MACIVER LAB, STANFORD UNIVERSITY | NEUROSCIENCE RESEARCHER June 2017 – Aug 2017 | Stanford, CA

• Used electrophysiological techniques to test novel general anesthetics on rat hippocampi.

ORCHARD LAB, CSUF | MEDICINAL CHEMISTRY RESEARCHER

October 2016 – May 2017 | Fullerton, CA

• Synthesized pharmaceuticals to target the Human Papillomavirus (HPV) E6 protein.

TAO LAB, CSUF | COMPUTATIONAL CHEMISTRY RESEARCHER

May 2016 - Aug 2016 | Fullerton, CA

• Used Gaussian 09 to model atmospheric interactions of sulfur dioxide and water clusters.

EDUCATION

HARVARD UNIVERSITY

M.S. IN STATISTICS Expected May 2022 A.B. IN COMPUTER

SCIENCE

Expected May 2022
Cambridge, MA
School of Engineering and
Applied Sciences
Concentration GPA: 3.8 / 4.0

SKILLS

PROGRAMMING

Over 5000 lines: Python • C++ • Java

Over 1000 lines:

OCaml • Matlab • HTML/CSS

Familiar:

Haskell • Prolog • R • JavaScript • SQL • LaTeX

PACKAGES

Statsmodels • Tensorflow • Keras • Pandas • Bokeh • SciKit-Learn • Plotly • SciPy • Seaborn • Matplotlib • XGBoost

TECHNOLOGIES

Tableau • Git • mySQL •
PostgreSQL • Jira • Hive •
Kubernetes • Presto •
Mercurial • Docker

AWARDS

2018 - Best in Class
HackLA hackathon
2017 - National Top 50
US Chemistry Olympiad
2017, 2018 - 1st place
Science Olympiad Nationals
2015 - 1st place
International art
competition

INTERESTS

Drawing, Rock Climbing, Running, Scuba Diving, Guitar, Poker, Piano