

JOSHUA CHUNG

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Objective:

Masters of Information and Data Science student at the University of California, Berkeley. Learned and researched multiple disciplines of data science, including predictive modeling, financial data science, data pipeline design, feature engineering and extraction, and visualization. Currently writing a research paper on the public financial data released by Numerai.

Expertise and Skills:

- Languages - Python, Java, SQL, Stata, HTML, CSS
- TensorFlow, Pandas, Numpy, Dask Parallel Computing, Financial Models, Sci-kit Learn, Dimension Reduction (DR), Matplotlib, Scipy, Seaborn, Time Series Analysis, Supervised and Unsupervised Learning

Project Links

- Financial Modeling with Neural Networks and Ensemble Methods: <https://tinyurl.com/y6yweuku>
- Inter-Annotator Agreement Software and User Reputation Scoring System: <https://github.com/Goodly/IAA-image>

Education:

UNIVERSITY OF CALIFORNIA, BERKELEY Aug. 2020 - Present | Berkeley, California
School of Information

- M.S. in Information and Data Science degree candidate; anticipated completion August, 2021

UNIVERSITY OF CALIFORNIA, BERKELEY Aug. 2016 - May 2020 | Berkeley, California
College of Letters and Science

- B.A. in Data Science
- GPA 3.39

Work Experience:

LAWRENCE BERKELEY NATIONAL LAB July 2020 - Present | Berkeley, California
Graduate Student Researcher

- Develop and publish a general framework for non-domain specific dimensionality reduction (DR) tuning and testing.
- Publish software utilizing Dask parallelization and HPC for DR and modelling; functions are significantly (60x) faster.
- Explore novel concepts such as Feature Clustering, Shapely Values, LCMC, Latin Hypercube Sampling.

LAWRENCE BERKELEY NATIONAL LAB July 2019 - May 2020 | Berkeley, California
Data Science Intern

- Explored the use of Convolutional and Recurrent Neural Networks for time-series single security price models.
- Applied the following DR techniques: PCA, SVD, Linear Discriminant Analysis, Mean-Decrease Accuracy.
- Present our findings to a cohort of U.C. Berkeley Data Scientists and students.

Research and Activities:

GOODLY LABS Jan. 2018 - July 2019 | Berkeley, California
Data Scientist

- Worked on a research team to build an inter-annotator agreement software utilizing Python, Pandas, and Numpy.
- Created specific algorithms for the Public Editor platform that work around low data depth and skewed distributions.
- Developed a custom multiplicative weighting algorithm to judge user reputation.

SIGMA PI FRATERNITY, IOTA CHAPTER Dec. 2018 - Dec. 2019 | Berkeley, California
President

- Spearheaded an effort to revitalize membership from 15 members to 40 members and increase revenue by 175%.
- Led a renovation project with a budget of \$300,000 for the improvement of rooms to raise internal revenue.
- Elected by a 40 man organization to oversee daily operations and future strategies for the fraternity.

UNIVERSITY OF CALIFORNIA, BERKELEY Aug. 2017 - Dec. 2017 | Berkeley, California
Data 8 Lab TA

- Provided assistance to students with technical knowledge, accessible analogies, and concise explanations.
- Fostered inquisitive and curious discussion surrounding statistics and data science.
- Attended a multitude of trainings on leadership, mentorship, and compassion.