Jinjin Zhao

jinjinz.com | 312-358-4949 | j2zhao@chicago.edu | github.com/j2zhao 5730 S Ellis Ave, Chicago, IL 60637

EDUCATION

University of Chicago

June 2024 (est.)

Computer Science, PhD, Advisor: Sanjay Krishnan

Neubauer Graduate Scholarship (\$45000)

Princeton University, Summa Cum Laude

June 2019

Computer Science, Bachelor of Science in Engineering

Statistics and Machine Learning, Minor

PROJECTS

DeepLens. Introduced a tiered video storage system on temporally and spatially partitioned files. Currently, working on periodic offline allocations of "hot" and "cold" video data, with future extension towards file categorization prediction without any prior access information.

Future Sentiment Predictions of Financial News Headline. Scraped Seeking Alpha's website for a financial news corpus with over 40,000 articles. Introduced a novel concept for analyzing financial news, where sentiment from response comments represents the ground truth of sentiment of article headlines (with the end goal of achieving faster and more accurate reaction times for sentiment-based stock trading). Assessed machine learning prediction capacities with standard models and techniques (eg. RNNs and GloVe).

Boosting the Performance of Small Datasets with Heterogeneous Training. Created a new deep learning architecture to accommodate different image datasets together without preprocessing, improving general classification performance on multiple smaller datasets. Applied onto MNIST, Street View House Numbers, and generated dataset, showing 10% improvement over baseline on Street View House Numbers for 10000 samples.

Voice Conversion through Deep Learning with WaveNet. Combined Google WaveNet and a CNN to create one end-to-end structure between audio files. Changed the identity of the speaker in audio files, without constraining input speaker identity or speech content.

Feature Extraction in Predicting Child Success in Fragile Families. Evaluated the importance of survey results by year in predicting children's GPA, through regression and decision trees, and found that Year 0 and Year 5 are particularly significant. Identified particular features of child success that correlated with previous research. Group presented final report at the official Fragile Family Project paper workshop.

ChatterWorks, 2016 YHacks 1&1 Prize Winner. Created a chatbot with text processing that managed 1&1's client databases in group scenarios.

EXPERIENCE Research Intern Princeton Plasma Physics Lab

June 2018 - July 2018 Princeton, NJ

Software Engineering Intern **Facebook**

June 2017 - August 2017 Seattle, WA

Facebook University Intern **Facebook**

June 2016 - August 2016 Menlo Park, CA

TEACHING Lab Teaching Assistant CMSC 16100 EXPERIENCE

Honors Introduction to University of Chicago

Programming, I. Autumn 2019

COS 397/497 Teaching Assistant

Mobile Computing Design for Princeton University

Assistive Technology. Fall 2018.

Course Grader COS324, COS445

Introduction to Machine Learning. Princeton University Economics and Computation. Fall

2017. Spring 2019.

Technology Consultant Digital Learning Lab

September 2016 - Jun 2019 Princeton University

CONFERENCE Zhao, J., Kolemen, E., Li, X., & Laggner, F. (2018, Nov). Experimental PRESENTATIONS Based Pedestal Prediction using Machine Learning. Poster session presented

at the 60th Annual Meeting of the American Physical Society Division of

Plasma Physics, Portland, Oregon. [pdf]

SELECTED Discrete Mathematics (CMSC37115), Computer Networks (COS461), Dis-**COURSEWORK** tributed Systems (COS418), Systems and Machine Learning (COS597G),

Advanced Computer Vision (COS529), Advanced Natural Language Pro-

cessing (COS597E)

Software Languages: Python, Java, C, OCaml, Go, Matlab, R SKILLS

Technical Skills: Scikit-Learn, TensorFlow, Android, HTML/CSS, MySQL