Daniel Li

http://daniel-li.me li.daniel@berkeley.edu 949.923.8662

Education

UC - Berkeley Fall '17 - Spring '18 M.Sc. in Electrical Engineering Computer Science

GPA: 4.0/4.0

UC - Berkeley Fall '17 - Spring '18 **B.Sc.** in Electrical Engineering

Computer Science

GPA: 3.96/4.0 UD/GD Tech. 3.65/4.0 Cumulative

Skills

Programming

Python: Java: R: LaTeX: HTML Frameworks | Libraries | Misc. PyTorch: Tensorflow: NumPy: SKLearn: Git/VCS: Hadoop:

Apache Spark

Mathematics & Statistics

Linear Algebra: Probability:

Bayesian Inference: Non-parametric

Statistics: Algebra: Topology

Coursework

Graduate

Algorithms & Uncertainty Beyond Worse Case Analysis Combinatorial Algorithms Computational Geometry

Deep Learning

Undergraduate

Efficient Algorithms

Computational Imaging

Awards

Dean's Honors MIT Think Award

Research Experience

Pachter Group @ UC - Berkeley

Research Assistant

 Research in novel approaches to RNA-sequencing with the features in abundance estimation transcript annotation difficulties, differential expression

Rao Group @ UC - Berkeley

Research Assistant

 Investigation on gene feature identification and accurate dimensionality reduction through recurrent convolutional autoencoders

Industry Experience

NEC Research Institute

Summer 2017

Fall 2015: Present

Fall 2015: Present

Research Scientist Intern

- Research in adaptive memory networks with a focus in faster inference.
 Currently under submission for ICLR '18
- First undergraduate researcher in Ph.D level work and in the hired candidate pool

Factual Inc. Summer 2016

Software Engineering Intern

- Worked on probabilistic deduplication, entity resolution, and record linkage of various locations databases with investigation into several methods such as Latent Dirichlet Allocation, non-parametric Bayesian inference
- Improved various metrics such as F1 score, RMSE, log loss

Teaching Experience

CS 160 Human Computer Interaction

Graduate Student Instructor

- Create content and lead section discussion group of 30 students on a weekly basis
- Hold office hours and grade student work

Research Projects

Adaptive Memory Networks

Python

Fall 2017: Present

- Designed and implemented a dynamic memory network implemented using PyTorch's automatic differentiation to achieve faster inference times on QA tasks
- Achieved state of the art results on bAbi text dataset
- Under review as a conference paper in ICLR '18

scRNA - NET Python

- Designed specialized autoencoder architectures to correct scRNA (single cell RNA sequenced data) data corruption
- Led the project team of 2 other students
- Proposal under submission to NVidia GPU Academic Grant Program