

Daniel Li

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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 Worst 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

Fall 2015 : Present

Research Assistant

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

Rao Group @ UC - Berkeley

Fall 2015 : Present

Research Assistant

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

Industry Experience

NEC Research Institute

Summer 2017

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

Fall 2017 : Present

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

- 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