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 '14 - Spring '17
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

NVIDIA Grant
Dean's Honors
MIT Think Award

Research Experience

Pachter Group @ UC - Berkeley — Fall 2015 : **Present**
Research Assistant
- Research in approaches to RNA-sequencing with features in abundance estimation, transcript annotation difficulties, differential expression

Rao Group @ UC - Berkeley — Fall 2016 : **Present**
Research Assistant
- Investigation on gene feature identification and accurate dimensionality reduction through recurrent convolutional autoencoders

Industry Experience

NEC Research Institute — Summer, Fall **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

Factual Inc. — Summer **2016**
Software Engineering Intern
- Worked on probabilistic deduplication, entity resolution, and record linkage using Latent Dirichlet Allocation and non-parametric Bayesian inference

Teaching Experience

CS 160 HCI @ UC - Berkeley — 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

scRNA - NET — **Python**
- Designed specialized autoencoder architectures to correct scRNA (single cell RNA sequenced data) data corruption
- **Received** NVIDIA Grant

Publications

- **Daniel Li**, Asim Kadav. *Adaptive Memory Networks*, **NIPS 2017** Workshop: Deep Learning at Supercomputer Scale.