Daniel Li

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

Education

Columbia University Fall '18 - IP
Ph.D in Computer Science
M.Phil in Computer Science
Area in Machine Learning & Computational Biology
UC - Berkeley Fall '17 - Spring '18
M.Sc. in Electrical Engineering Computer Science
UC - Berkeley Fall '14 - Spring '17
B.Sc. in Electrical Engineering Computer Science

Skills

Programming
Python : Java : R : LaTeX : HTML
Frameworks | Libraries | Misc.
PyTorch : Tensorflow : NumPy : SKLearn : Git
Mathematics & Statistics
Statistics : Algebra : Topology

Coursework

Graduate
Algorithms & Uncertainty
Beyond Worse Case Analysis
Combinatorial Algorithms
Computational Geometry
Deep Learning
Statistical Inference
Biostatistics

Awards

NVIDIA Grant
ICLR Travel Award
Dean's Honors
MIT Think Award

Research Experience

Pe'er Group @ Columbia University   Fall 2018 : **Present**
Researcher
- Use image synthesis for contextual generation of cells to understand cell-cell interactions at a subcellular resolution

Pachter Group @ UC - Berkeley   Fall 2015 : **Spring 2018**
Research Assistant
- Research in approaches to RNA-sequencing with features in abundance estimation, transcript annotation difficulties, differential expression

Rao Group @ UC - Berkeley   Fall 2016 : **Spring 2018**
Research Assistant
- Investigation on gene feature identification and accurate dimensionality reduction through recurrent memory autoencoders

Industry Experience

Memorial Sloan Kettering Cancer Center   Summer **2019**
Researcher
- Computer vision techniques for analyzing and understanding tumor data

General Industries Group   Fall 2017 : **Fall 2018**
Co-Founder (2)
- Trading account (equities, options) of **$1M USD** reaching **120%** ROI YTD

NEC Research Institute   Summer, Fall **2017**
Research Scientist Intern
- Research in adaptive memory networks with a focus on faster inference.
- **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

UC - Berkeley, Columbia University   Fall 2017 : **Fall 2019**
Graduate Student Instructor (5 semesters)
- Human Computer Interaction, Machine Learning for Functional Genomics

Publications

- **Daniel Li**, Qiang Ma, Andrew Liu, Justin Cheung, Itsik Pe'er. *Understanding Subcellular Protein Distributions Through Semantic Image Synthesis*, Manuscript in Preparation for **ICLR 2020**

- **Daniel Li**, Asim Kadav. *Adaptive Memory Networks*, **NIPS 2017** Workshop: Deep Learning at Supercomputer Scale & **ICLR 2018** Workshop