

# Daniel Li

<http://daniel-li.me>  
[daniel.li@columbia.edu](mailto: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 Worst 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 **Machine Learning & Biology**

- Use image synthesis for contextual generation of cells to understand cell-cell interactions at a subcellular resolution

**{Pachter, Rao} Group @ UC - Berkeley** Fall 2015 : **Spring 2018**  
Research Assistant **Machine Learning & Biology**

- Investigation on gene feature identification and dimensionality reduction

## Industry Experience

**Google Research** Summer 2020  
Research Intern **Natural Language Processing**

- Increased automatic speech recognition translation by +1 to +1.4 BLEU
- Investigated multilingual translation models using SOTA English classifiers

**General Industries Group** Fall 2017 : **Present**  
Co-Founder (2) **Securities Trading, Consulting**

- Trading account (equities, options) of **\$1.5M USD** reaching **120% ROI YTD**
- Engaged in topics ranging from data privacy, healthcare, blockchain

**Memorial Sloan Kettering Cancer Center** Summer 2019  
Researcher **Computer Vision & Imaging**

- Computer vision techniques for analyzing and understanding tumor data

**NEC Research Institute** Summer, Fall 2017  
Research Intern **Natural Language Processing**

- Research in adaptive memory networks with a focus on faster inference.

**Factual Inc.** Summer 2016  
Software Engineering Intern **Natural Language Processing**

- Worked on probabilistic deduplication, entity resolution, and record linkage

## Teaching Experience

**UC - Berkeley, Columbia University** Fall 2017 : **Spring 2020**  
Graduate Student Instructor (6 semesters)

- Human Computer Interaction, Machine Learning for Functional Genomics

## Publications

- Daniel Li**, Te I, Naveen Ari, Colin Cherry, Dirk Padfield. *A Simple Trick for Neural Machine Translation Endpointer Robustness*. **In Progress**
- Daniel Li**, Qiang Ma, Andrew Liu, Justin Cheung, Itsik Pe'er. *Exploring Cellular Protein Distributions Through Semantic Image Synthesis*
- Daniel Li**, Asim Kadav. *Adaptive Memory Networks*, **NIPS 2017 Workshop: Deep Learning at Supercomputer Scale & ICLR 2018 Workshop**