

# 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**  
PyTorch : Tensorflow : NumPy  
**Mathematics & Statistics**  
Statistics : Algebra : Topology  
**Design & UI & UX**  
Figma : Prototyping

## Coursework

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

## Awards & Misc.

NVIDIA Grant  
ICLR Travel Award  
Dean's Honors  
CS:GO SMFC (2017)

## Research Experience

**Pe'er Group @ Columbia University** Fall 2018 : **Present**  
Researcher  
Machine Learning & Biology  
◦ Transformers, GANs, deep learning and their applications to biology

**{Pachter, Rao} Group @ UC - Berkeley** Fall 2015 : **Spring 2018**  
Research Assistant  
Machine Learning & Biology  
◦ Investigation on gene feature identification and dimensionality reduction

## Industry Experience

**Unnamed Group** Fall 2017 : **Present**  
Co-Founder (total team size of 2)  
Securities Trading, Consulting  
◦ Trading accounts (equities, options) of **\$2M USD, 350% ROI** since inception  
◦ Topics from data privacy, healthcare, blockchain, algorithmic trading

**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

**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 Segmentation Robustness*. **In Progress**

Daniel Li, Qiang Ma, Jenny Chen, Andrew Liu, ... , Itzik Pe'er. *Counterfactual Hypothesis Testing of Tumor Microenvironment Through Semantic Image Synthesis*. **Under Review**.

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