# Daniel Li

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## 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 Worse 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. *Sentence Boundary Augmentation for Neural Machine Translation Robustness*. In submission at ICASSP 2021.

**Daniel Li**, Qiang Ma, Jenny Chen, Andrew Liu, … , Itsik Pe'er. *Counterfactual Hypothesis Testing of Tumor Microenvironment Through Semantic Image Synthesis*. Under review at Nature Methods.

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