Daniel Li

http://daniel-li.me
daniel.li@columbia.edu
[redacted]

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.

Daniel Li, Qiang Ma, Jenny Chen, Andrew Liu, … , Itsik 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