

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 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**