

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 | 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]

- Research in approaches to RNA-sequencing
- Investigation on gene feature identification and dimensionality reduction

Industry Experience

Google Research Summer 2020
Research Intern [Natural Language Processing]

- Increased automatic speech recognition translation models by +1 to +1.4 BLEU points, to be submitted at a conference
- Investigated multilingual translation models using SOTA English classifiers

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

- Trading account (equities, options) of \$1.5M USD reaching 120% ROI YTD

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 [Machine Learning & Biology]

- 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 Endpoint 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**