

# Daniel Li

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Born: February 9, 1997—Beer-Sheva, Israel

Nationality: American/Chinese

## Current Position(s)

*Ph.D Researcher*, Columbia University

- Use computer vision to generatively understand cell types
- Generative modeling for unrolling sequences in protein folding
- Graph neural networks for cell-cell interaction unsupervised representation learning

*Co-Founder*, General Industries Group

- Manage \$1.5M across various sectors
- Trading account (equities, options) of \$1M USD reaching 120% ROI YTD

*Graduate Student Instructor*, Columbia University

- Machine learning for functional genomics

## Research Interests

Machine Learning • Deep Learning • Computational Biology

## Positions Held

2019s	Research @ Memorial Sloan Kettering Cancer Center <ul style="list-style-type: none"><li>• Research in cancer tumor biopsy images</li></ul>
2017-2019	Graduate Student Instructor @ UC Berkeley, Columbia University <ul style="list-style-type: none"><li>• User Interface Design</li></ul>
2015-2018	Pachter Group @ UC Berkeley, Research Assistant <ul style="list-style-type: none"><li>• Research in approaches to RNA-sequencing with features in abundance estimation, transcript annotation difficulties, differential expression</li></ul>
2016-2018	Rao Group @ UC Berkeley, Research Assistant <ul style="list-style-type: none"><li>• Investigation on gene feature identification and accurate dimensionality reduction through recurrent memory autoencoders</li></ul>

- 2017S NEC Laboratories, Research Assistant
- Deep learning on memory recurrent networks.
  - First *undergraduate* research assistant in Ph.D level work
- 2016S Factual Inc, Software Engineering Intern
- Entity resolution of databases semantic similarity, clustering, and artificial neural networks
- 2012S, 2013S University of California, Irvine Calitz, Research & Development Intern

## Education

- 2018-IP Ph.D. Computer Science, Columbia University. *2018-Present.*
- 2018-IP M.PHIL. Computer Science, Columbia University. *2018-Present.*
- 2017-2018 M.Sc. Electrical Engineering and Computer Science, University of California, Berkeley.
- 2014-2017 B.Sc. Electrical Engineering and Computer Science, University of California, Berkeley.
- 2011-2014 DIPLOMA. La Cañada High School

## Honors & awards

- 2019 Ph.D. Service Award – top 10% in service contributions
- 2018 ICLR Travel Grant – awarded to student presenter at ICLR 2018
- 2017 NVIDIA Grant – awarded Titan Xp GPU, University of California, Berkeley
- 2016 Dean’s Honors – awarded to top 10% (3.9 GPA) of the class, University of California, Berkeley
- 2014 MIT Think Award – awarded \$2,000, Massachusetts Institute of Technology
- 2014 Summa Cum Laude – awarded to top 5% of graduating class

## Papers

- 2019 *Daniel Li, Qiang Ma, Andrew Liu, Justin Cheung, Dana Pe’er, Itsik Pe’er. Exploring Cellular Protein Localization Through Semantic Image Synthesis. Under Review at ICLR 2020. Columbia University, Google, Memorial Sloan Kettering Cancer Center.*
- 2017 *Daniel Li, Asim Kadav. Adaptive Memory Networks, University of California, Berkeley, NEC Laboratories America. NIPS 2017 Workshop: Deep Learning at Supercomputer Scale. ICLR 2018 Workshop*

## Talks

- 2016S Li, Daniel, *Latent Dirichlet Allocation and Applications in Data Deduplication*, Factual Inc. *June 9, 2016*