Daniel Li

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Born: February 9, 1997—Beer-Sheva, Israel
Nationality: American/Chinese

Current position(s)

Research Assistant, Columbia University & Memorial Sloan Kettering Cancer Center.
Use probabilistic methods and computer vision to detect and classify cell types

Co-Founder, Alpha Echelon Group @ alphaechelon.group.
Co-Founded with 3 others with $6M USD under management

Graduate Student Instructor, University of California, Berkeley
CS 160 - Human Computer Interaction

Research Interests

Machine Learning • Deep Learning • Computational Biology

Positions held

2015-2018 Pachter Group @ UC Berkeley, Research Assistant
• Research in approaches to RNA-sequencing with features in abundance estimation, transcript annotation difficulties, differential expression

2016-2018 Rao Group @ UC Berkeley, Research Assistant
• Investigation on gene feature identification and accurate dimensionality reduction through recurrent memory autoencoders

2017S NEC Laboratories, Research Assistant
• Deep learning on memory recurrent networks and video action recognition.
• Only *undergraduate* research assistant in Ph.D level work and in the accepted candidate pool

2016S Factual Inc, Software Engineering Intern
• Entity resolution of databases semantic similarity, clustering, and artificial neural networks

2012S, 2013S University of California, Irvine Calit2, Research & Development Intern

Education

2018- PH.D. Computer Science, Columbia University. *Entering Fall 2018.*

2017-2018 M.SC. Electrical Engineering and Computer Science, University of California, Berkeley. *In progress.*
- 3.85/4.0 GPA

2014-2017 B.SC. Electrical Engineering and Computer Science, University of California, Berkeley.
- 3.96/4.0 GPA Upper Division & Graduate Division
- 3.65/4.0 GPA Cumulative

2011-2014 DIPLOMA. La Cañada High School
- 4.7/4.0 GPA

Honors & awards

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

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*

In Progress *Daniel Li*, Vasilis Ntranos. *k-NN Based Denoising Autoencoder for Single Cell RNA Data Imputation*, University of California, Berkeley.

Talks

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

Coursework

2** DENOTES GRADUATE DIVISION

1** DENOTES UPPER DIVISION

M.Sc.** DENOTES TIME AS A M.Sc. STUDENT

B.Sc.** DENOTES TIME AS A B.Sc. STUDENT

M.Sc. FA 2017 (IP) *University of California, Berkeley*
Computer Science 294-134 — Beyond Worst Case Analysis
CS 294-131 — Deep Learning
CS 299 — Research Thesis under Professor Satish Rao

B.Sc. SP 2017 *University of California, Berkeley*
Computer Science 270 — Combinatorial Algorithms & Data Structures
Computer Science 274 — Computational Geometry
Computer Science 294-131 — Special Topics in Deep Learning
Computer Science 194-131 — Designing Technology to Combat Violent Extremism
Electrical Engineering 16B — Designing Information Devices and Systems II
Industrial Engineering & Operations Research 192 — Entrepreneurship
Information 88A — Data and Ethics
Physics 49 — Thermodynamics
Computer Science 199 — Research under Professor Lior Pachter
Computer Science 199 — Research under Professor Satish Rao

B.Sc. FA 2016 *University of California, Berkeley*
Computer Science 170 — Efficient Algorithms & Intractable Problems
Computer Science 194-26 — Computational Photography
Computer Science 294-128 — Algorithms and Uncertainty
Computer Science 199 — Research under Professor Lior Pachter
Computer Science 199 — Research under Professor Satish Rao

B.Sc. SP 2016 *University of California, Berkeley*
Computer Science 61C — Machine Architectures
Computer Science C8 — Introduction to Data Science
Computer Science 160 — Human Computer Interaction
Computer Science 199 — Research under Professor Lior Pachter
College Writing 25AC — United States Education
College Writing 10A — Introduction to Public Speaking
College Writing 9C — Academic Writing

B.Sc. FA 2015 *University of California, Berkeley*
Computer Science 70 — Discrete Mathematics & Probability Theory
Electrical Engineering 16A — Designing Information Devices and Systems I
Computer Science 199 — Research under Professor Lior Pachter
History 162A — Europe and the World: Wars, Empire, Nations 1648-1914

B.Sc. SU 2015 *University of California, Berkeley*
Mathematics W53 — Multivariable Calculus

California State University, Fullerton

Physics 226 — Electricity & Magnetism
Physics 226L — Electricity & Magnetism Lab

B.Sc. SP 2015 *University of California, Berkeley*
Mathematics 54 — Linear Algebra and Differential Equations
Computer Science 61B — Data Structures
Physics for Scientists and Engineers 7A — Mechanics
Education 190 — Critical Studies in Education
Computer Science 98 — Directed Group Study

B.Sc. FA 2014 *University of California, Berkeley*
Computer Science 61A — Structure and Interpretation of Computer Programs
Mathematics 1A — Calculus
Earth & Planetary Science C129 — Biometerology
Education 186AC — The Southern Border
Comparative Literature R1B — Comparative World Literature
Mechanical Engineering 98 — Directed Group Study