

Daniel Li

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

Nationality: American/Chinese

Current position(s)

Research Assistant, University of California, Berkeley.

Pachter Group

- Research in novel approaches to RNA-sequencing with the features in abundance estimation transcript annotation difficulties, differential expression

Research Assistant, University of California, Berkeley

Rao Group

- Investigate phylogenetic algorithms and optimize estimation accuracies on various trees

Research Interests

Computational Biology • Machine Learning

Positions held

- | | |
|--------------|--|
| 2017s | NEC Laboratories, Research Assistant <ul style="list-style-type: none">• Deep learning on memory recurrent networks and video action recognition.• Only <i>undergraduate</i> research assistant in Ph.D level work and in the accepted candidate pool |
| 2016s | Factual Inc, Software Engineering Intern <ul style="list-style-type: none">• Entity resolution of databases semantic similarity, clustering, and artificial neural networks |
| 2012s, 2013s | University of California, Irvine Calitz, Research & Development Intern |
| 2013s | Pabrai Investment Funds, Analyst Intern |

Education

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|-----------|--|
| 2014-2017 | BSc. Electrical Engineering and Computer Science, University of California, Berkeley. <i>In progress.</i> <ul style="list-style-type: none">• 3.63/4.0 GPA |
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2011-2014 DIPLOMA. La Cañada High School
• 4.7/4.0 GPA

Honors & awards

2016sp 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

In Progress Daniel Li, Vasilis Ntranos. *A Statistical Model for Error Correction of RNA Drop Rate*, University of California, Berkeley.

Talks

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

Relevant Skills

Proficient Programming Languages: Python • Java • R
Mathematics: Calculus (integral, differential, vector, multivariable) • Discrete Mathematics

Competent Programming Languages: C • CSS • HTML • Android SDK development • Shiny • LISP/Clojure/Scheme
• SQLite
Mathematics: Statistics • Calculus (Lambda) • Probability theory • Algebra • (Partial) Differential Equations

Coursework

1** DENOTES UPPER DIVISION

2** DENOTES GRADUATE DIVISION

Fall 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

Spring 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

Summer 2015

University of California, Berkeley

Mathematics W53 — Multivariable Calculus

California State University, Fullerton

Physics 226 — Electricity & Magnetism

Physics 226L — Electricity & Magnetism Lab

Fall 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

Spring 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

Fall 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

(IP) Spring 2017

University of California, Berkeley

Computer Science 270 — Combinatorial Algorithms & Data Structures

Computer Science 294-131 — Special Topics in Deep Learning

Computer Science 189 — Machine Learning

Electrical Engineering 16B — Designing Information Devices and Systems II

Computer Science 199 — Research under Professor Lior Pachter

Computer Science 199 — Research under Professor Satish Rao