

Daniel Li

University of California, Berkeley
1 Soda Hall, Rm 626
Berkeley, California 94709 U.S.A.

Phone: 949-923-8662

email: li.daniel@berkeley.edu

URL: <http://www.daniel-li.me>

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

- | | |
|-----------|--|
| 2014-2017 | BSc. Electrical Engineering and Computer Science, University of California, Berkeley. <i>In progress.</i> <ul style="list-style-type: none">• 3.61/4.0 GPA |
|-----------|--|

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 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