

Daniel Li

University of California, Berkeley
2647 Durant Avenue
Berkeley, California 94704 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
- Optimization of statistical likelihood model through non uniform distribution analysis to increase accuracy for projections onto subspaces

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

2016s	Factual Inc, Research & Development Intern <ul style="list-style-type: none">• Entity resolution of databases through latent dirichlet allocation on abstract word relations
2013-2014	Speech & Debate, President
2013-2014	Science Olympiad, Captain
2012s, 2013s	University of California, Irvine Calitz, Research & Development Intern
2013s	Pabrai Investment Funds, Analyst Intern

Education

2014-2017	BSc <i>in progress</i> Electrical Engineering and Computer Science, University of California, Berkeley <ul style="list-style-type: none">• 3.6/4.0 GPA
2011-2014	DIPLOMA La Cañada High School <ul style="list-style-type: none">• 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, Kai-Sern Lim, Chen Guo. <i>A Novel Framework for Resolving Location Entity Duplication through Semantic Analysis</i> , University of California, Berkeley; Factual Inc.
In Progress	Daniel Li, Vasilis Ntranos. <i>A Statistical Model for Error Correction of RNA Drop Rate</i> , University of California, Berkeley.

Talks

2016s	Li, Daniel, <i>Latent Dirichlet Allocation and Applications in Data Deduplication</i> , Factual Inc. June 9, 2016
-------	-------------------------------------------------------------------------------------------------------------------

Relevant Skills

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

Fall 2014	<i>University of California, Berkeley</i> Computer Science 61A – Structure and Interpretation of Computer Programs Mathematics 1A – Calculus Earth & Planetary Science C129 – Biomaterology Education 186AC – The Southern Border Comparative Literature R1B – Comparative World Literature Mechanical Engineering 98 – Directed Group Study
Spring 2015	<i>University of California, Berkeley</i> 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 *(IP) University of California, Berkeley*
Computer Science 170 — Efficient Algorithms & Intractable Problems
Computer Science 176 — Algorithms in Computational Biology
Electrical Engineering 16B — Designing Information Devices and Systems II
Computer Science 195 — Ethics in Computer Science
Computer Science 199 — Research under Professor Lior Pachter
Computer Science 199 — Research under Professor Satish Rao