

# 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
- 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, Software Engineering Intern <ul style="list-style-type: none"><li>• Entity resolution of databases semantic similarity, clustering, and artificial neural networks</li></ul>
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. Electrical Engineering and Computer Science, University of California, Berkeley. <i>In progress.</i> <ul style="list-style-type: none"><li>• 3.6/4.0 GPA</li></ul>
2011-2014	DIPLOMA. La Cañada High School <ul style="list-style-type: none"><li>• 4.7/4.0 GPA</li></ul>

## 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
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## 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