

Daniel Kunin

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Education

Brown University

Sc.B. Applied Mathematics, A.B. Computational Biology
GPA: 3.90/4.0

Providence, RI
Expected Graduation May 2017

Brookline High School

All Advanced Placement and Honors Classes
GPA: 4.95/5

Brookline, Massachusetts
Sep 2008 - May 2012

Relevant Coursework

Mathematics: *Calculus, Linear Algebra, Differential Equations, Statistical Analysis, Bayesian Statistics, Information Theory, Graph Theory and Network Science*

Computer Science: *Imperative/Object Oriented Programming, Functional Programming, Systems Programming*

Biology/Chemistry: *Organic Chemistry, Biochemistry, Computational Biology, Genetics, Microbiology*

Work/Research Experience

Front-End Web Developer

-Used D3.js to create interactive visualizations of statistical analysis concepts
-Designed and developed a web platform currently used in
1000-level APMA classes: *students.brown.edu/seeing-theory*

Providence, RI
May 2016 - Dec 2016

Brown-Stanford iGEM team at NASA Ames

-Genetically engineered metabolic pathway for styrene monomer in *E.coli*
-Used CRISPR/Cas9 system to increase transformation efficiency

Mountain View, CA
May 2015 - Sep 2015

Undergraduate TA for An Integrated Introduction (CSCI 018)

-Imperative and object oriented programming in Java and Scala
-Covers fundamental data structures and algorithms

Providence, RI
Starting Jan 2017

Undergraduate TA for Introduction to Scientific Computing (CSCI 004)

-Held weekly problem sessions on Matlab programming

Providence, RI
Jan 2016 - May 2016

Dean of the College Tutor of Organic Chemistry I & II

-Held weekly group and individual tutoring sessions in organic chemistry

Providence, RI
Jan 2015 - Dec 2015

HHMI SEA-PHAGES Program

-Undergraduate research course designed by Howard Hughes Medical Institute
-Focuses on microbiology lab techniques and genome annotation/analysis

Providence, RI
Sep 2013 - May 2014

Awards

Brown Mathematical Contest for Modeling

-Developed a model and algorithm for optimizing the value of Pokemon caught
-Outstanding Winner; one of two groups sponsored by Division of Applied Math
to compete in the International MCM Competition in January

Providence, RI
November 2016

Brown University Royce Fellowship

-Designed and developed a web platform currently used in 1000-level APMA classes
-Lifetime membership in the Society of Royce Fellows

Providence, RI
April 2016

Brown Mathematical Contest for Modeling

-Developed a model for viral population growth and treatment.
-Finalist Winner; cash prize

Providence, RI
November 2015

International Genetically Engineered Machines Competition

-Undergraduate Winner: Best Manufacturing Project
-Undergraduate Nominated: Best New Composite Part, Best Part Collection, Best Poster

Boston, MA
September 2015

Languages/Interests

Programming Languages: Javascript, Python, Matlab, C++, Java, Scala, HTML/CSS, LaTeX

Personal Accomplishments:

-Paddled 600 miles through the Arctic in a team of seven (Elk-Thelon River)
-Led a 1000 km hike with two friends through Israel (Shvil Israel)
-Volunteered for five months at a free health clinic for Burmese migrants in Thailand (Mae Tao Clinic)

Other interests: Data Visualizations, Cooking, Hiking, Home Brewing, Travel