

# Dylan Baker

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Harvey Mudd College, Claremont, CA — B.S. Computational Data Science; Major GPA 3.3 — Expected graduation May 2017

## >Skills

LANGUAGES	SELECTED COURSEWORK
Proficient — C#, R, Java	Algorithms, Data Mining, Machine Learning, Discrete Mathematics, Combinatorics, Multivariable Calculus, Linear Algebra, Differential Equations, Discrete Dynamical Systems & Chaos, Quantum Probability, Mathematics of Big Data, Senior Thesis in Mathematics (Machine Learning), Environmental and Spatial Statistics
Familiar — C++, Python, HTML/CSS	

## >Projects & Awards

Summer 2015	Took 2nd Place at Google Games Irvine, a puzzle & coding competition run by Google
Summer 2015	Participated in Google's "CodeU" Java Android development/mentorship program
Winter 2014	Built a gesture-based music-making interface using the Thalmic Myo and Leap Motion ( <i>team of 4</i> )
Spring 2014	Took 3rd place and won Pebble's "Best Hardware Hack" at Hacktech with a pedal-controlled helicopter that interacts with a game projected on a screen; primarily used arduino and kinect ( <i>team of 4</i> )
Summer 2012-13	Automated the counting of neuron nuclei with approximately 98%+ accuracy, used machine learning to automate cell categorization
2013-2016	Dean's List

## >Relevant Experience

Summer 2016	Software Engineering Intern, Laserfiche	Software Engineering Intern, Web Access team; worked to optimize PDF image loading in the Laserfiche web interface; designed and implemented web load testing software to evaluate and compare image loading approaches
Summer 2015	C++ Instructor at iD Tech Camps	Taught beginning through advanced C++ to middle and high school students; self-developed curriculum for the course
Summer 2014	Summer Research Student, HMC	Interviewed educators to write content for computer science pedagogy website CSTEachingTips.org; worked on front-end web development in HTML/CSS
Summer 2013	Microscopy Intern, UCLA Department of Neurology	Used image processing and machine learning to automate processing of cell images; worked on confocal and epifluorescent microscopy with human neural progenitor cells; created figures for grant applications and publications using R

## >Leadership Positions

2016-2017	Proctor/RA	Act as an on-call crisis resource for Harvey Mudd students, plan and organize dorm events, facilitation communication between students and administration
2016-2017	Music Director	Run rehearsals, write and conduct music for on-campus a cappella ensemble
2014 - 2017	Writing Center Tutor	Tutor Harvey Mudd College students in both academic and nonacademic writing; facilitate writing workshops for students throughout the year