

# Lucas M. Waldburger

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## EDUCATION

### UC BERKELEY

BA IN MOLECULAR & CELL BIOLOGY  
Expected May 2018 | Berkeley, CA  
College of Chemistry Dean's List  
MCB Honors Program

### SANTA BARBARA CITY COLLEGE

Grad. May 2016 | Santa Barbara, CA  
Honors Program President  
Honors Certificate Recipient  
President of Chemistry Club  
Invited Conference Moderator and Host

## COURSEWORK

Plant Biology  
Animal Biology  
Cell Biology  
Advanced Cell Biology (Graduate)  
Molecular Biology  
Frontiers in Microbial Systems Biology  
General Genetics  
Genetic Design Automation  
Genetic Devices  
Metabolic Engineering  
Java Fundamentals  
Object Oriented C++  
MATLAB for Engineers  
Organic Chemistry I & II  
Biophysical Chemistry I & II  
Physical Biochemistry (Graduate)  
Chemical Biology  
Engineering Physics I, II, & III  
Multivariable Calculus  
Linear Algebra  
Differential Equations  
Biostatistics

## SKILLS

### PROGRAMMING

Over 10,000 lines:  
Java • C++ • Python  
Matlab •  $\text{\LaTeX}$  • MS Excel  
Over 5,000 lines:  
Javascript • CSS • HTML  
Maple • R • MS Access

### LANGUAGES

English: Native Proficiency  
Spanish: Native Proficiency

## PROJECTS

BioCAD Assignment Validator  
CRISPR Assembly Tool  
Python Wet Lab Curriculum  
Video Lectures for Biophysical Chemistry  
MATLAB Applet for Cell Biology Lab

## ORGANIZATIONS

American Institute of Chemical Engineers  
American Chemical Society  
UCSB/Cal Triathlon Club  
Cal Sailing Club

## EXPERIENCE

**BIOENGINEERING STUDENT COMMITTEE** | UC BERKELEY COLLEGE OF ENGINEERING  
January 2018 – Present | Berkeley, CA

**BIOPHYSICAL CHEMISTRY TEACHING ASSISTANT** | UC BERKELEY  
January 2017 – Present | Berkeley, CA

**ORGANIZING COMMITTEE MEMBER** | NORCAL COMPUTATIONAL BIOLOGY  
January 2017 – Present | Berkeley, CA

**SUMMER RESEARCH ASSISTANT** | CHAN ZUCKERBERG BIOHUB  
June 2017 – August 2017 | San Francisco, CA

**MEDICAL ASSISTANT** | BERKELEY FREE CLINIC  
May 2016 – August 2016 | Berkeley, CA

**LABORATORY TECHNICIAN** | ATMOSPHERIC ANALYSIS AND CONSULTING, INC.  
May 2015 – August 2015 | Ventura, CA

**JACK KENT COOKE BRIDGES PARTICIPANT** | UC SANTA BARBARA  
June 2014 | Santa Barbara, CA

**PROJECT ACCESO PARTICIPANT** | CSU CHANNEL ISLANDS  
June 2014 - July 2014 | Camarillo, CA

**CALCULUS TUTOR** | SANTA BARBARA CITY COLLEGE  
May 2014 – August 2014 | Santa Barbara, CA

**NOTE TAKER** | SANTA BARBARA CITY COLLEGE DISABLED STUDENTS PROGRAM  
August 2013 – May 2014 | Santa Barbara, CA

## RESEARCH

**DUEBER LAB** | UC BERKELEY DEPARTMENT OF BIOENGINEERING  
January 2017 – Present | Berkeley, CA

**EL-SAMAD LAB** | UCSF CENTER FOR SYSTEMS AND SYNTHETIC BIOLOGY  
January 2017 – Present | San Francisco, CA

**SAVAGE LAB & DOUDNA LAB** | UC BERKELEY INNOVATIVE GENOMICS INSTITUTE  
October 2017 – December 2017 | Berkeley, CA

**LI LAB** | UCSF CENTER FOR SYSTEMS AND SYNTHETIC BIOLOGY  
September 2016 – February 2017 | San Francisco, CA

## AWARDS

2017	Best CRISPR Assembly Software	Department of Bioengineering
2017	Summer Research Fellow	College of Chemistry
2017	Chevron Scholarship	Chevron Corporation
2017	Zachary Cruz Memorial Scholarship	Zachary Michael Cruz Foundation
2016	Dow-MIT Access Program	MIT
2016	Student Support Services Scholarship	UC Berkeley
2016	STEM Scholarship	National Science Foundation
2016	William Olivarius Scholarship	Biological Sciences Department
2015	Dr. Ronald Shlensky Memorial Scholarship	Santa Barbara City College
2015	Adopt-A-Student Scholarship	Santa Barbara City College
2015	James Selleck Bower Scholarship	Santa Barbara City College
2014	Sarah Gregory Memorial Scholarship	Santa Barbara City College
2014	Morris and Irma Jurkowitz Award	Santa Barbara City College
2014	Laurie Converse Scholarship	Santa Barbara City College