

# Julius Oppenheim

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## EDUCATION

### CALIFORNIA INSTITUTE OF TECHNOLOGY

#### CHEMISTRY MAJOR

Expected June 2019 | Pasadena, CA  
Cum. GPA: 3.6

### HACKLEY SCHOOL

#### CUM LAUDE

June 2015 | Tarrytown, NY  
Honors in Science, Math, and Arts  
Composite ACT Score, 35  
National AP Scholar

## LINKS

Github:// [JulesOpp](#)  
Google Scholar:// [Julius Oppenheim](#)

## COURSEWORK

### CALIFORNIA INSTITUTE OF TECHNOLOGY

Chemical Engineering Thermodynamics  
Introduction to Computer Programming  
Analytical Classical Mechanics and  
Electromagnetism

### COLUMBIA UNIVERSITY SCIENCE HONORS PROGRAM

Sept 2012 – May 2015 | New York, NY  
Organic Chemistry  
Computer Programming in Java  
Mathematical Methods in Physical Science

### FAIRLEIGH DICKINSON UNIVERSITY

Fall 2013 | Teaneck, NJ  
Nonlinear Electronic Circuits

### HARVARD UNIVERSITY SUMMER COLLEGE

Summer 2013 | Cambridge, MA  
Laboratory Electronics: Analog and Digital Circuit Design

## SKILLS

### PROGRAMMING

Proficient:

C • C++ • Java • Objective-C  
MS Excel • Python •  $\text{\LaTeX}$

Skilled:

AppleScript • JavaScript • Ruby

### CERTIFICATIONS

First Aid CPR AED, June 2015

## EXPERIENCE

### CALTECH CHEMISTRY CLUB | ACADEMIC COORDINATOR

March 2016 - Present | Pasadena, CA

- Organize and manage seminars by visiting faculty members to provide educational opportunities for undergraduates.

### I2 CAMP | ENGINEERING DESIGN WORKSHOP TEACHER

June 2015 – Aug 2015 | Tarrytown, NY

- Taught middle school students to design and fabricate ROVs.

### REGENERON PHARMACEUTICALS | AUTOMATION TECHNOLOGIES MENTOREE

June 2014 – Sep 2014 | Tarrytown, NY

- Work focused on the dynamic integration of robotic equipment.

## RESEARCH

### LINDHURST LABORATORY FOR EXPERIMENTAL GEOPHYSICS, CALTECH | RESEARCHER

Summer 2016 - Present | Pasadena, CA

- Worked with Dr. Paul Asimow to study the shock synthesis of quasicrystals, specifically icosahedrite and decagonite.
- Used scanning electron microscopy, electron diffraction spectroscopy, electron backscatter diffraction, and electron probe micro-analysis.

### NEW YORK MEDICAL COLLEGE, DEPARTMENT OF NEUROSURGERY | RESEARCHER

Summer 2012 – 2014 | Valhalla, NY

- Worked with Dr. Meena Jhanwar-Uniyal to study molecular and genetic mechanisms of primary and metastatic tumors of the nervous system to understand the mechanism of tumor metastases.
- "Stem Cell Therapy and Curcumin Synergistically Enhance Recovery from Spinal Cord Injury," February 18, 2014, Published in PLOS ONE

## LEADERSHIP

### CALTECH DIVISION I FENCING SQUAD | SQUAD LEADER

Sep 2015 - Present | Pasadena, CA

- Coach the sabre squad in both practice and at meets.
- Led a novice squad to a record-breaking season.

### HACKLEY UPPER SCHOOL COMMUNITY COUNCIL | CLASS PRESIDENT

Aug 2014 - June 2015 | Tarrytown, NY

- Designed events such as movie nights, field days, and spirit weeks.

## HONORS AND ACHIEVEMENTS

- 2016 NCAA Division I Regionals - Fencing
- 2015 Hackley Richard Perkins Parker Memorial Award
- 2015 Hackley Stanley B. Pennock Prize in STEM
- 2015 Hackley Community Music Award for Band Ensembles

