

# Julius Oppenheim

joppenhe@caltech.edu | 845.269.9905

## EDUCATION

### CALIFORNIA INSTITUTE OF TECHNOLOGY

#### UNDECIDED MAJOR

Expected June 2019 | Pasadena, CA  
Cum. GPA: N/A

### HACKLEY SCHOOL

#### CUM LAUDE

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

## LINKS

Github:// JulesOpp

## COURSEWORK

### COLUMBIA UNIVERSITY SCIENCE HONORS PROGRAM

Sept 2012 – May 2015 | New York, NY  
Organic Chemistry  
Computer Programming in Java  
Group Theory  
Graph Theory by Example  
Mathematical Methods in Physical Science  
Particle Physics

### 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

Skilled:

AppleScript • JavaScript •  $\LaTeX$  • Ruby

### CERTIFICATIONS

First Aid CPR AED, June 2015

## EXPERIENCE

### I2 CAMP | ENGINEERING DESIGN WORKSHOP TEACHER

June 2015 – Aug 2015 | Tarrytown, NY

- Teaching middle school students to design and fabricate ROVs.

### REGENERON PHARMACEUTICALS | AUTOMATION TECHNOLOGIES MENTOREE

June 2014 – Sep 2014 | Tarrytown, NY

- Work focusing on the dynamic integration of robotic equipment.

### NY STATE DEPARTMENT OF HEALTH | UNDERCOVER INVESTIGATOR

2012 – 2014 | Rockland Country, NY

- Determining whether stores will sell cigarettes to minors.

## RESEARCH

### 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

### HACKLEY UPPER SCHOOL COMMUNITY COUNCIL | CLASS PRESIDENT

Aug 2014 - June 2015 | Tarrytown, NY

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

### HACKLEY VARSITY EPEE FENCING SQUAD | TEAM CAPTAIN

Aug 2014 - June 2015 | Tarrytown, NY

- Led the team to 2nd place for Men's Team Epee in the ISFL.
- Earned 3rd place for Men's Individual Epee in the ISFL.

## HONORS

2015 Hackley Richard Perkins Parker Memorial Award  
2015 Hackley Stanley B. Pennock Prize in Science  
2015 Hackley Stanley B. Pennock Prize in Math  
2015 Hackley Stanley B. Pennock Prize for Technology  
2015 Hackley Community Music Award for Band Ensembles

## PERFORMANCES

2014	Trombone First Chair	Area All-State Orchestra
2014	Trombone	Westchester All-Country Jazz Festival
2013	Trombone	Harvard University Summer Pops Band
2013	Euphonium First Chair	Area All-State Orchestra