

## RAPHAEL BAER-WAY RESUME

2400 Durant Avenue  
Berkeley, CA 94720

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### Education

#### United Nations International School (K-12)

- IB Courses: Mathematics, Chemistry, Physics, History, English, Chinese
- IB Grades: Physics:7, Math:7, History:6, Chemistry:6, English:5, Chinese:5,

#### University of California, Berkeley

- Undergraduate, 2018-Present  
GPA: 3.857  
Majors: Physics and Astrophysics
- Fall 2018 Dean's list

#### Summer Courses and Internships

- **Chemistry NYU Internship** September 2015-July 2017  
Supervisor: Professor Bart Kahr

Investigating growth of KDP (Potassium Dihydrogen Phosphate) crystals

- **Harvard Summer School Astronomy and Astrophysics course** June 2017  
Professor Xiawei Wang Two-week residential course at Harvard College

### Employment/Research

- **Research Assistant** January 2020-Present  
  
Undergraduate Researcher

Soon to be checked out Nickel 1 meter Telescope Observer

Supervisor: Professor Alex Filippenko

- **Grader** Fall 2020

Astronomy C10-Introduction to Astronomy

- **The Boys Club of New York City** Assistant Soccer Coach for team of boys ages 10-12 2017-2018

Supervisor: Matt Hickey

- **Berkeley IM Sports**-Soccer Referee Spring 2019-Present

### **Awards/Achievements**

- Rochester Institute of Technology Award for Innovation and Creativity in Science - 2017
- National Merit Semifinalist

### **Publications/works in progress**

- Paper on Progenitor Mass Constraints for type Ib intermediate luminosity Sn2015ap and highly extinguished Sn2016bau (Aryan et al)
- Paper on Variable stars in cluster M15 finding periods using PIPS (newly developed period-finding algorithm) (Murakami et al)