



**2021**

**UC Irvine Cancer Research Institute  
Youth Science Fellowship  
“Virtual” Program (YSFP)  
July 1<sup>st</sup> – July 30<sup>th</sup>**

A four-week virtual laboratory research  
opportunity at the  
**University of California, Irvine**  
for High School Juniors & Seniors

Application Deadline by February 28<sup>th</sup>, 5:00 pm

For more information, please visit our Website  
<http://cri.bio.uci.edu>  
or Email [cri@uci.edu](mailto:cri@uci.edu)



# 2021 UCI Cancer Research Institute Youth Science Fellows Program

## Expectations of Students:

- Works Hours: 3 hours a day, 5 days a week for a total of 15 hours a week.
- Attendance at YSFP virtual events, all seminars and panels, video must be ON. \*We will be screening the videos to make sure you are paying attention
- Submit responses to 3 Questions after each seminar or panel.
  1. What was the most interesting thing you learned?
  2. What is something you did not understand or want to know more about?
  3. A question you have for the speaker/about the speaker's research?
- Read assigned paper reviews and watch videos.

## General Program Reminders:

- Any absences need to be pre-approved by Krystina before the absence.
- The program ends Friday July 30<sup>th</sup>.

## Contact Information:

CRI Administration Nita Driscoll ([nrdrisco@uci.edu](mailto:nrdrisco@uci.edu); office 949-824-5886) and Krystina Jarema ([kjarema@uci.edu](mailto:kjarema@uci.edu); office 949-824-2054).

Graduate Student Coordinators

# IMPORTANT

## Letter of Recommendation Requirements for Participating Teachers and Faculty

If you have been asked to write a letter of recommendation for the UCI Youth Science Fellowship Program, we would like to say Thank You. We appreciate your students' interests and your participation in this process. Please note that, there are several requirements that the letter must meet in order for your applicant(s) to be eligible. Email all recommendations or questions to the Cancer Research Institute at [cri@uci.edu](mailto:cri@uci.edu)

### Guidelines:

- ✓ Only one letter of recommendation per student; if there are multiple names on the letter, then none of the students will qualify.
- ✓ The letter of recommendation must be written on letterhead and emailed from the teacher's official school email address.
- ✓ The letter must be emailed as a pdf document.
- ✓ Please be aware that the due date for the letter of recommendation is non-negotiable. A late letter will disqualify the student applicant. **Due date is February 28<sup>th</sup>, 2020**
- ✓ **The student's name must be in the subject line of the email.**

## Letter of Recommendation Requirements for Students

Please select a faculty member (teachers within the science, technology, engineering or mathematics department are preferred) who can recommend you for this program. We recommend you share with them the requirements of the letter of recommendation so that your application is not disqualified.

Be aware that it is your responsibility to actively ensure the letter of recommendation is received by the CRI administration on or before the deadline. Any late submissions disqualify you, the applicant, so make sure to ask ahead of time. Choose your faculty sponsor carefully.

Make sure the teacher you have selected knows the email address where the letter of recommendation must be sent, [cri@uci.edu](mailto:cri@uci.edu). Students may not email the letter of recommendation to the CRI. All letters must be received on letterhead, and emailed using the teacher's email address.

**FAQ:** <http://cri.bio.uci.edu/sample-page/youth-science-fellowship-program/faqs/>

For more information, see the **Frequently Asked Questions** page and the **Sample Application** on the CRI Website at <http://cri.bio.uci.edu>. Please email all questions to the CRI office at [cri@uci.edu](mailto:cri@uci.edu)

Student Name Student ID Grade Gender Birthdate Counselor  
**Peter, Anteater** 0000012345 11 Male 01/01/2005

**Transcript of Student Progress**

**February 25, 2019**  
**Ant Hill High School**  
**12345 Anteater Drive**  
**Irvine, CA 92697**

Parent/guardian name, address, telephone

Crs-ID	Course Title	Mark	Att/Cmp	Crs-ID	Course Title	Mark	Att/Cmp	Crs-ID	Course Title	Mark	Att/Cmp
Grade 7 Fall/Term 1 2014-2015				O728	Career Foc Med	A+	5.00 5.00	Grade 11 Fall/Term 1			
Orange Unified - Cerro Villa Middle				* P740	Ath-Tennis	A	5.00 5.00	2018-2019 Orange Unified -			
+ p N170	Algebra 1	A	10.00 10.00	+ p S759	Biology H	A+	5.00 5.00	+ p F986	AP Span Lang	A-	5.00 5.00
Credit and GPA rules vary for MS Courses				Credit Att: 35.00 Cmp: 35.00 AGPA: 4.80				+ p H996	AP US History	A+	5.00 5.00
Grade 7 Spring/Term 2 2014-2015				Grade 9 Spring/Term 2 2016-2017				+ p L512	AP Engl Lang	A	5.00 5.00
Orange Unified - Cerro Villa Middle				Orange Unified - Villa Park High				+ p N987	AP Calculus BC		5.00 5.00
+ p N170	Algebra 1	A	10.00 10.00	p F731	Spanish II	A	5.00 5.00	* P740	Ath-Tennis	A	5.00 5.00
Credit and GPA rules vary for MS Courses				+ p H900	AP Human Geo	A+	5.00 5.00	+ p S984	AP Chemistry	A-	5.00 5.00
Grade 8 Fall/Term 3 2014-2015				+ p L309	English 9 H	A+	5.00 5.00	+ p S995	AP Phys C:Mech	A	5.00 5.00
Orange Unified - Cerro Villa Middle				+ p N719	Algebra II H	A+	5.00 5.00	Credit Att: 35.00 Cmp: 35.00 AGPA: 5.20			
+ p N170	Algebra 1	A+	10.00 10.00	O728	Career Foc Med	A+	5.00 5.00	--WORK IN PROGRESS--			
Credit and GPA rules vary for MS Courses				* P740	Ath-Tennis	A	5.00 5.00	Orange Unified - Villa Park High			
Grade 8 Spring/Term 1 2015-2016				+ p S759	Biology H	A+	5.00 5.00	+ p F986	AP Span Lang		5.00 0.00
Orange Unified - Cerro Villa Middle				Credit Att: 35.00 Cmp: 35.00 AGPA: 4.80				+ p H996	AP US History		5.00 0.00
F112	Spanish 1B	A	10.00 10.00	Grade 10 Fall/Term 1 2017-2018				+ p L512	AP Engl Lang		5.00 0.00
+ p N175	Geometry H	A+	10.00 10.00	Orange Unified - Villa Park High				+ p N987	AP Calculus BC		5.00 0.00
Credit and GPA rules vary for MS Courses				p F732	Spanish III	A	5.00 5.00	* P740	Ath-Tennis		5.00 0.00
Grade 8 Spring/Term 2 2015-2016				+ p H997	AP World Hist	A+	5.00 5.00	+ p S984	AP Chemistry		5.00 0.00
Orange Unified - Cerro Villa Middle				+ p L409	English 10 H	A+	5.00 5.00	+ p S995	AP Phys C:Mech		5.00 0.00
F112	Spanish 1B	A	10.00 10.00	+ p N739	Pre Calc/Trig H	A+	5.00 5.00	Total Credit: 35.00			
+ p N175	Geometry H	A+	10.00 10.00	* P740	Ath-Tennis	A	5.00 5.00				
Credit and GPA rules vary for MS Courses				+ p S769	Chemistry H	A+	5.00 5.00				
Grade 8 Term 3 2015-2016				+ p S769	Chemistry H	A+	5.00 5.00				
Orange Unified - Cerro Villa Middle				+ p S769	Chemistry H	A+	5.00 5.00				
F112	Spanish 1B	A-	10.00 10.00	Credit Att: 35.00 Cmp: 35.00 AGPA: 5.00							
+ p N175	Geometry H	A+	10.00 10.00	Grade 10 Spring/Term 2 2017-2018							
Credit and GPA rules vary for MS Courses				Orange Unified - Villa Park High							
Grade 9 Fall/Term 1 2016-2017				p F732	Spanish III	A	5.00 5.00				
Orange Unified - Villa Park High				+ p H997	AP World Hist	A+	5.00 5.00				
p F731	Spanish II	A	5.00 5.00	+ p L409	English 10 H	A+	5.00 5.00				
+ p H900	AP Human Geo	A+	5.00 5.00	+ p N739	Pre Calc/Trig H	A+	5.00 5.00				
+ p L309	English 9 H	A	5.00 5.00	* P740	Ath-Tennis	A	5.00 5.00				
+ p N719	Algebra II H	A	5.00 5.00	+ p S769	Chemistry H	A	5.00 5.00				
				+ p S976	AP Chemistry	A+	5.00 5.00				
				Credit Att: 35.00 Cmp: 35.00 AGPA: 5.00							

Course Tags: \* = Non Academic + = Honors (weighted) = College Prep = Repeated

	Weighted	Non-Wgtd
Acad GPA (9-12)	<b>4.9600</b>	<b>4.0000</b>
Acad GPA (10-12)	<b>5.0667</b>	<b>4.0000</b>
Total GPA (9-12)	<b>4.9600</b>	<b>4.0000</b>

Credit Attempted: 175.00  
 Credit Completed: 175.00

**Class of 2021**

Subject Area	Credit Req'd	Compl	Needed
English 9	10.00	10.00	-
L/A-Engl 10	10.00	10.00	-
Algebra	10.00	10.00	-
L/A-Engl 11	10.00	5.00	5.00
L/A-Engl 12	10.00	-	10.00
Mathematics	10.00	10.00	-
Science	10.00	10.00	-
Physical Science	10.00	10.00	-
Health	10.00	10.00	-
World History	10.00	10.00	-
U.S. History	10.00	5.00	5.00
American Government	5.00	-	5.00
Economics	5.00	-	5.00
Physical Education	20.00	20.00	-
Fine Arts/Art	10.00	10.00	-
Freshman Year	5.00	5.00	-
Electives	80.00	55.00	25.00
* TOTALS *	230.00	175.00	55.00

State ID# 1160653713

This transcript is unofficial unless signed by a school official.

*Disclaimer: The following are just a few examples of the types of skills/activities that one could include. Please simply follow this type of format to explain your own personal skills and activities so we can get to know you better! You are not required to have something in all the categories.*

## **Science, Math, and/or Computer Skills**

### **Science Skills**

- Took IB Psychology
  - Performed independent study for class project on 'weapon-effect' to see impact on ability to observe details when a weapon is present versus not (based on work from Anne Loftus). Involved 40 high school students and obtained consent.
  - Scored a 7 out of 7 on the IB SL Exam
- Took IB Chemistry
  - Scored a 6 out of 7 on the IB exam
- Self-studied IB Biology-I over the summer, so I could enroll in IB Biology-II this year (teacher provide me the book and instructions on what I should learn)
- Currently taking IB Biology-II and have a grade of "A"
- Currently writing my Extended Essay on Parkinson's Disease
  - Focused on neuroscience of how the disease develops and advances, and also what treatments are available and how they work.
- Experience with micropipettes, cell culture, Bunsen burners, gel electrophoresis, and pH meters

### **Math Skills**

- Advanced Math Track
  - Took IB Calculus as a Junior – Scored a 5 on the AP Calculus Exam
  - Currently taking IB Math HL (multi-variable calculus and other higher math), have grade of "A".
- Received a 740 on the Math SAT Subject Test

### **Computer Skills**

- Familiar with JAVA (used on my FIRST robotics team)
- Specialist in GMAT (General Mission Analysis Tool)
  - This is a space modeling software used by my CubeSat team

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## **Experience and/or Honors**

### **Work Experience**

- Shift Manager at Anteater Fountain and Eatery 2008-current
  - Make sure customer's orders are filled correctly and quickly, and that we are compliant with company policies and safety codes. As manager during my shift I address any issues that happen
  - 6 hours a week (but more during breaks and holidays)

### **Volunteer**

- Hospital Volunteer at Anteater Medical Clinic 2008-current
  - Worked directly with Dr. Ant and helped with patients, organized research data from ongoing clinical trials relating to emotional and physical health connection and helped with other office tasks.
  - 4 hours a week
- Volunteer at Anteater Church 2006-current
  - Help with the elementary kids once a month

### **Other Activities**

- Co-captain FIRST Robotics Team 2009-current
  - Helped start the team at my school, participated in the designing and building of the robot
  - Captain of the drive team during the Regional Competition
  - 20 hours a weeks during build season, less during off season
- Member of CubeSAT STEM Program 2008-2009
  - Working with a team to launch a CubeSAT (nano-satellite) into low earth orbit.
  - 5 hours a week
- Member of Varsity Soccer Team 2007-current
- Secretary of Anteater Car Club 2007-2008
  - Hosted a large car show at school where students, parents, and faculty could enter their car. I was in charge of registration.
  - Proceeds were donated to the school to repair our parking lot

### **Honors**

- Scholar Athlete (for top athletic performance and high GPA) Fall 2009
- IB Psychology Student of the Year Spring 2009
- Honorable Mention at ASK Fair (Anteater Science Knowledge Fair)
  - Submitted poster titled, "Sugar or Sugar, what Sugar do Ants like best?"
  - Used 5 different types of sugar to investigate the best way to attract Ants to the source.

## Personal Statement

Ideas of things to include (these are NOT required, just suggestions)

1. Why you are interested in this program and what about research excites you.
2. What do you hope to achieve by being a part of this program, personally
3. Any plans you have after graduating from high school or other career plans. If you don't have plans, that is okay too – let us know what you are exploring then.
4. Any life experiences that have played a role in shaping who you as a scientist.
5. OR anything else that will help us understand and get to know you as a person

Arial Font, Size 12, Maximum 1000 Words

Reminder, this is a RESEARCH Program, not a Pre-Med program

## Diversity Statement

Diversity is a broadly defined term. **In 300 words or less** describe how your interests and/or background (in terms of culture, race, gender, ethnicity, work and life experiences would contribute to the "diversity" of the program. Also, why diversity is important for a research team and in science.

## Additional Information

(Optional Essay) Any additional information you would like the review committee to know as we review your application does here. (100 word limit)