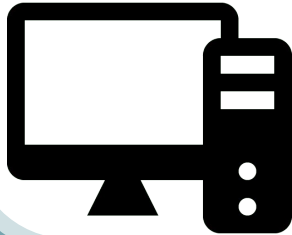


Female Participation in CS

Orange Glen High School



CS LISTEN UP
Conference
18 May 2022



Orange Glen High Team Members



**Slideshow regarding
female participation in CS
at Orange Glen**

Abstract

Since we wanted to focus on females this year, our research question was:

What are the factors that impact female students' decision to take CS classes at OGHS?

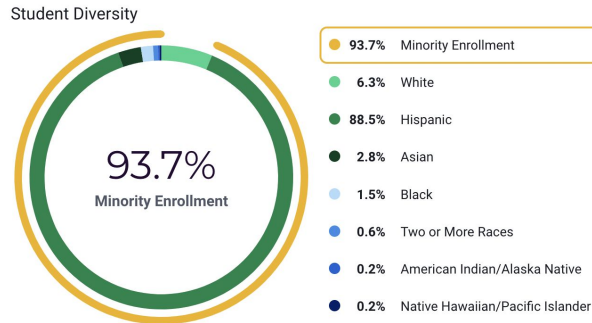
To find these factors, we created a 12 question survey and received a total of 137 surveys. We had a majority of females take this survey and most people who took it were seniors. We found that many people knew about CS, were interested in taking CS classes, but did not pursue anything. Overall, we found that there was simply not enough knowledge or information provided to students in regards to the CS classes offered at OG.



Background Info of OGHS

- Students come from families of diverse ethnic and socio-economic backgrounds.
- The majority of Orange Glen HS consists of Hispanic/Latino students at 88% of the school population.
- 89% of students attending are socioeconomically disadvantaged.

*Data as of December 2020



Gender Distribution



Total Economically Disadvantaged (% of total) ⓘ	89%
Free Lunch Program (% of total) ⓘ	74%
Reduced-Price Lunch Program (% of total) ⓘ	14%
Full-Time Equivalent Teachers	80



Background Info of CS at OGHS

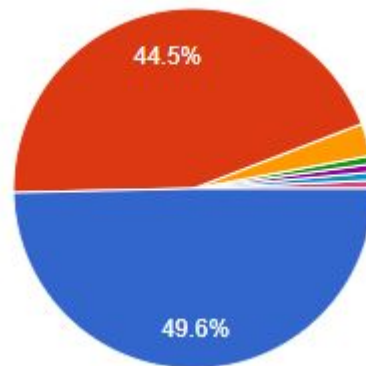
CS Classes Offered:

- Exploring CS
- AP Computer Science Principles
- AP Computer Science A

Majority who take CS @ OG:

- Males
- Upperclassmen
- Hispanics

There is a coding/robotics offered weekly after school where students work on various digital and physical projects. There also classes offered at our local community college that students can take outside of school.



Research Question

What are the factors that impact female students' decision to take Computer Science classes at OGHS?


- Since our previous year we did a broader survey, not targeting a certain gender, we agreed this year we would focus more on one certain student group that lacked representation in CS classes – females.



Methodology

- We sent out surveys consisting of 12 questions that were multiple choice and on a scale from 1 to 5.
- We asked questions regarding the students' knowledge of CS and the relevance with computer science at Orange Glen.
- We initially planned to do interviews, but decided to scrap the idea.
- There were 137 recorded submissions and people were able to take the survey at any time due to it being a google form but were limited to only one response per person.





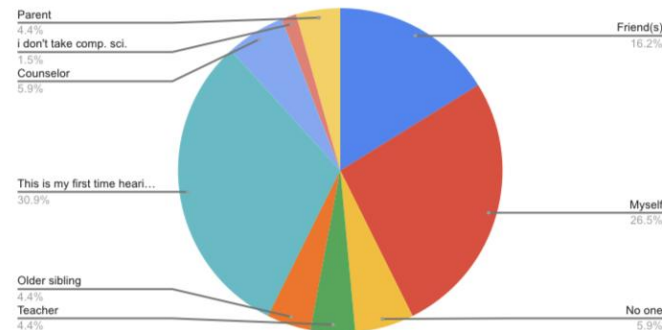
**To explore our
survey, you may
scan this QR
code.**



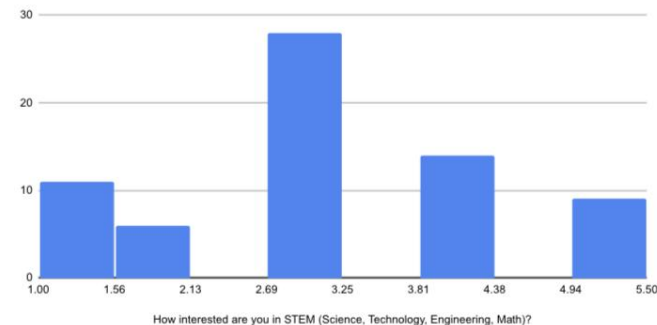
Findings

- 50% responses were from female students
 - Most being Latinx/Hispanic & upperclassmen
 - Most interested in STEM
- 62% knew of CS classes at OG
- 78% were not enrolled in a CS course
- 24% said this was their first time hearing about CS
- While 57% weren't aware of the credits the classes offer (math, science, cte)
- 70% said counselors have **not** mentioned CS as an elective option or another alternative to earn math, science, or cte credits

Count of Who has had the most influence on your decision to take Computer Science courses or not?



Histogram of How interested are you in STEM (Science, Technology, Engineering, Math)?

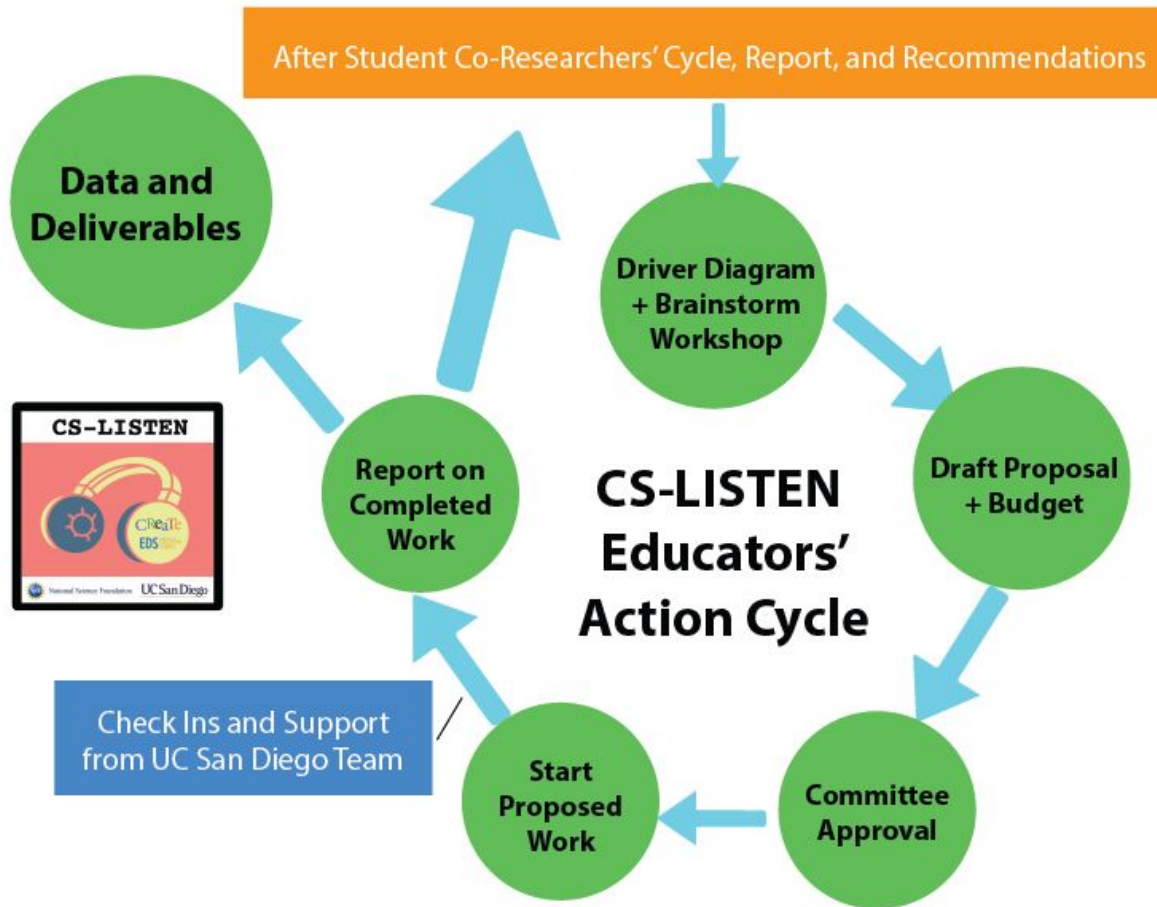


Overall Conclusion

According to our findings, many female students at Orange Glen are interested in Computer science, but don't pursue this interest. The most profound factors we found in our data that most likely contribute to the issue are that:

- Students lack knowledge of the classes offered
- The school doesn't promote Computer science compared to other classes





Recommendations for Action Cycles

- Inform counselors & give them a slideshow or infographic to share with students when scheduling season comes around
- 8th grade fair (local middle schools)
- CS showcase
- CS Summer Academy



Thank you!