**CSCI 490 Research Queries**

Ethnicity

1. What is the overall distribution of ethnicities in Los Angeles County schools?
2. What is the ethnicity distribution at every income tier in Los Angeles County?
3. What is the distribution of ethnicities among schools that offer Computer Science (CS)?
4. What is the distribution of ethnicities enrolled in CS?
5. How does the ethnicity distribution of CS-enrolled students compared to the overall ethnicity distribution?

Income

1. What is the overall distribution of income in Los Angeles County schools?
2. What is the distribution of income among schools that offer Computer Science?
3. What percentage of the students taking CS attend a low-income school? "High-income" school?\*

\*Really we cannot determine if a school is anything more than "not low-income" i.e. they do not have a high percentage of FRPM-eligible students

Time (1988 - 2015)

* How has the overall ethnicity distribution changed over time?
* How has the overall income distribution changed over time?
* How has the ethnicity distribution changed over time in schools that offer Computer Science?
* How has the income distribution changed over time in schools that offer Computer Science?

Gender

1. What is the gender distribution of Los Angeles County?
2. What is the gender distribution among schools that offer Computer Science (CS)?
3. What is the gender distribution of students enrolled in CS?
4. How does this compare to the gender distribution of the school?
5. What is the gender distribution at every income tier in Los Angeles County?
6. What is the gender distribution by ethnicity in Los Angeles County?  Have to make a new table with a different structure in order to get this
7. What is the gender distribution of the ethnicities enrolled in CS?  Female Asians may be more encouraged to participate in STEM courses than female Hispanics.

Notes

* From this site (<http://www.kidsdata.org/topic/518/free-school-meals-eligible/trend#fmt=675&loc=364&tf=10,84>), the average FRPM eligibility for Los Angeles County from 2012 - 2015 is 66.8%. This is 4.6% higher than the 62.1% average we have (which is limited to schools that offer CS). The site shows about a 65% average since 2007.
* FRPM data is suppressed in schools where less than 20 students qualify for the program (which might make it appear that there are fewer "high-income" schools than there are).
* FRPM eligibility: A child's family income must fall below 130% of the federal poverty guidelines ($31,005 for a family of four in 2014-2015) to qualify for free meals, or below 185% of the federal poverty guidelines ($44,123 for a family of four in 2014-2015) to qualify for reduced price meals.

Resources

* Income Eligibility Guidelines per year since 2006: <https://www.fns.usda.gov/school-meals/income-eligibility-guidelines>.