



**CALIFORNIA SCIENCE & ENGINEERING FAIR  
2019 PROJECT SUMMARY**

<b>Name(s)</b> <b>Roxy Luster</b>	<b>Project Number</b> <b>J1717</b>
<b>Project Title</b> <b>Fog, Fog on the Wall: Which Color Shines the Brightest through Fog?</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives</b> My objectives or goals are to go to the fair and do a good job with my presentation and maybe get a place award in the award ceremony but, if don't I'm glade that I went.</p> <p><b>Methods</b> I tested different colored lights through fog to see which one would shine the brightest through fog. My materials used were a plastic tote with a lid for a box to provide a constant environment, a light that had the capability of changing colors, a fog machine that I borrowed from a friend, my iPhone for a timer, a GoPro camera, and an image.</p> <p><b>Results</b> I timed how long it would take for the image to disappear completely through the fog once the fog machine was turned on. I tested this five times each time with nine different colors (White, Red, Orange, Yellow, Green, Light Blue, Dark Blue, Purple, and Pink).</p> <p><b>Conclusions</b> I was able to see the image the longest through the fog using white light. The implications on using this information are people who live in foggy areas like San Francisco or the coastal regions where fog is frequent.</p>	
<b>Summary Statement</b> My project is about, testing which color shines the brightest through fog.	
<b>Help Received</b> I did the project alone I designed the project, I did the experiment but, had help buying everything and had parent supervision.	