Observing Weather Conditions near Wildland Fires in Real Time

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**Statement of the problem/topic of the research or creative work**

Due to the dangerous and highly susceptible nature of wildland fires to change and threaten lives and property, it is critical to those who monitor and fight fires to have as much information as possible regarding the atmospheric conditions surrounding the fire. Providing all of this information in one web page, with customizable parameters to allow users to see only the information they are interested in, is our main goal. Using the Synoptic Labs Mesonet API, we have created a web page that queries and displays the weather information near all active wildland fires in the United States.

**Relevant background/literature review**

**Specific activities to be undertaken and a timetable allotted for each activity**

**Relationship of the proposed work to the expertise of the faculty mentor**

**Relationship of the proposed work to the student’s future goals**