**Group 3 Project 2 – US Wildfires Database**

Members: Kaylon Young, Behrouz Zand, Rob Pascarella, Tobias Judd

Abstract:

Wildfires don’t stop where the wilderness ends. They burn through communities and neighborhoods, destroying property and taking lives. With climate-driven increases in wildfires in the U.S., it is imperative to understand how the risk to homes is also changing nationwide. The convergence of warmer, drier conditions and greater development into flammable landscapes is leaving many communities vulnerable to human-caused wildfires.

The objective of this project was to extract and explore a publicly available spatial database of wildfires that occurred in the United States from 1992 to 2015 and includes 1.88 million geo-referenced wildfire records, representing a total of 140 million acres burned during the 24-year period.

The questions that this project proposes to answer are:

* Have wildfires become more or less frequent over time?
* What areas states are the most and least fire-prone?
* Seasonal impact on size and frequency?
* Given the size, location and date, can you predict the cause of a fire wildfire?

Resources:

The websites that are used in this project include:

1. [1.88 Million US Wildfires | Kaggle](https://www.kaggle.com/rtatman/188-million-us-wildfires)