ATOC REU Python Bootcamp

Day 1: Challenge

Welcome to your Python Bootcamp group. You’ll be working in this group for the rest of the REU bootcamp (and the rest of the REU!). Each group has a spread of coding backgrounds, so if you’re more experienced please help out those who are new to coding!

First, please go around and introduce yourselves! Make sure to include your name, your university, your coding background, and your favorite dessert + any other fun facts.

These afternoon sessions will generally include a general challenge problem. Today will be a bit different, but there will be a coding problem at the end!

1. Come up with a team name that can be used for your group – please be creative (keep it appropriate though!) – and a corresponding team logo.
2. Your graduate mentors will be hopping on this call at **1:30pm** to get to know you and introduce themselves. Please introduce with names and research interests
3. Finally, we have a small coding challenge based on our lesson today…  
     
   You will find a data file (**boco\_air\_temp.csv**) in this drive. Open a new Jupyter Notebook and import the following packages: Pandas, Numpy, Matplotlib. Please load the datafile into the notebook using Pandas and create a time series plot (e.g. **data plotted against time**) of the average annual mean. Also create a plot with the lines for both March and October. Once you have done this, please look at the [matplotlib documentation](http://matplotlib.org/) and add a [title](https://matplotlib.org/3.1.1/api/_as_gen/matplotlib.pyplot.title.html), labels for the [axes](https://matplotlib.org/stable/gallery/pyplots/fig_axes_labels_simple.html), change the size of the graph, etc… (Basically make this a prettier figure by exploring different plotting options).