**Department of Atmospheric & Oceanic Sciences**

**Undergraduate Independent Study Contract**

Student Name Muntaha Pasha Student # 107232843

Email mupa0444@colorado.edu Phone 720-883-7372

Semester Fall 2020 Course # ATOC 4900- Credit Hrs 3

Instructor Aneesh Subramanian

Requirements: The minimum expectation for each semester hour of credit is 25 hours of work. This may include laboratory work, library research, and consultation. College of Arts & Sciences policy states students may not register for more than 3 credit hours of independent study credit during any term. No more than 8 credit hours taken in a single department or program can be applied toward the total hours needed for graduation. A maximum of 16 hours may count toward the degree.

TOPIC:

This project will be in collaboration with scientists at NCAR and the host at NCAR for this appointment will be Dr. Christine Shields. During the appointment, there will collaboration with Dr. Shields and various members of the CCR Section at NCAR on analysis of anemometer data collected at the Mesa Lab over the past year. A timeseries analysis of the anemometer wind data obtained at NCAR will be performed and physical links between the wind variability over the past few decades at NCAR and the largescale changes in winds will be studied.

Goal or expected product (term paper, exam, oral presentation, etc.):

End of Term Report will be submitted detailing all work completed over the course of the semester, as well as snapshots of code that was written, hours spent for that week on the project, and any other important details in regards to the analysis done.

Bi-Weekly progress reports to be shared in remote meetings with Professor Subramanian, and with Dr. Shields.

Dates (first conference, due date for completion of project, etc.):

Bi-Weekly, Half-Hour meetings to discuss progress made, any issues that come up, and what work has been done as well as what work still needs to be done ahead.

Student signature Muntaha Pasha date 08/10/2020

Instructor signature A drawing of a face

Description automatically generated date 08/11/2020