**Class Papers guidelines**

 - papers are not mandatory, but if well written, they will increase your final grade

 - submission via email to matteog@berkeley.edu

 - **hard deadline for paper submission 11:59 pm December 20th, 2021**

-Papers will be a minimum of 3 to a maximum of 5 pages

-Font will be Times New Roman, 12

-Line Spacing will be 1.5

Papers may include:

A- For general topics: why the topic is relevant for Forest Diseases and what are the practical applications of knowledge on the topic

B- For specific diseases: where is the disease native or where is the source how and when did it get to a different world region (exotic pathogen) or what was the role of the native pathogen in natural ecosystems and how did it become invasive (emergent native pathogens), what methods were used to understand where a pathogen comes from or whther it is native or exotic, what are the effects of the pathogen in the invaded system, what has been done or can be done to control the disease, what should be done that has not been done yet, is the pathogen hybridizing with another pathogen/

 **TOPICS**

1- The fungal mycelium

2- Molecular diagnostics of tree pathogens

3- Disease control options for tree/forest pathogens

4- Describe the current regulations to prevent importation of plant pathogens and propose a better option

5- Chestnut blight in the USA and Europe

6- Pine Pitch Canker: a worldwide pathogen

7- Cypress Canker Disease caused by *Seiridium cardinale* : how did become a world pandemic

8- Laurel Wilt in the Southeastern USA: an insect-borne threat to both native forests and agriculture

9- Ash dieback in Europe

10- A thousand canker disease of walnuts: a USA problem now reported in Italy

11- The Jarrah dieback in Australia caused by *Phytophthora cinnamomi*

12- Oak decline caused by *Phytophthora cinnamoni* in the Iberian Peninsula (Portugal and Spain)

13- *Botryosphaeria dothidea*: a worldwide latent pathogen

14- *Heterobasidion irregulare* introduced in Italy by the US Army