***CS594/690 Project Presentation Guide, Spring 2021* [[1]](#footnote-1)**

* *Title Slide*: list the title of your talk along with your name(s)
* *Test Questions Slide*: provide three questions relevant to your subject
  + short answers should suffice
  + somewhere during your talk provide the answers, but do not emphasize them
* *Presenter’s Slides*: let others get to know you
  + provide a little information about yourself, your degree program and your advisor
  + describe your interests and goals; show a map and picture(s) of your hometown
  + mention your pets, your travels, your tastes in food, your interests in music, you name it
* *Outline Slide*: provide a bulleted outline of the rest of your talk
  + *Table of Contents*
* *Overview Slide*: list important definitions and provide a brief mention of applications
  + *More of introduction*?
  + *What is a neural network*
  + *What is a graph neural network*
  + *How does it differ from other approaches of network learning*
  + *Applications. Image processing, Simulations, etc.*
* *History Slide*: discuss major contributors, interesting stories and main developments
  + *Literature dive*.
  + *History of deep learning\**
* *Algorithms Slides*: describe basic procedures and methodological comparisons
  + discuss techniques from the most basic to the state-of-the-art
  + use examples and figures whenever possible
  + explore current literature – discuss how GNNs work, what current advances are.
    - Illustrate difference between ANN (feed forward + gradient descent) and GNN learning.
* *Applications Slides*: educate the class about amenable problems of interest to you
  + don’t get bogged down in too much minutiae
  + once again use examples and figures whenever possible
    - Image processing and simulations (and other applications)
* *Implementations Slides*: tell everyone the results of your coding work
  + yes, in this class you should have implemented some things – so plan ahead
  + compare and contrast the algorithms you studied
  + make effective use of table and charts
    - Implement via keras / pytorch / tensorflow (from the tutorials)
* *Open Issues Slide*: enumerate and discuss a few open questions
  + *What are the current challenges of the GNNs*
* *References Slide*: provide a handful of key citations
  + *Citations*!
* *Discussion Slide*: time for a little reflection
  + except for its title, this slide may be left blank
  + this is a good opportunity for other students to add to the discussion
  + encourage every student to ask at least one question
  + remember not to repeat the answers to your test questions
* *Test Questions Slide Revisited*: show again your original test questions slide
  + students may now complete their answer sheets and email them to you
  + Brett will supervise as we applaud your excellent presentation!

1. Kindly email everyone a list of your questions before you begin. This way, you will not have to stop your presentation so that your fellow students can write down these questions. [↑](#footnote-ref-1)