

# Deep Learning CS583 Fall 2022

## Quiz 3

December 12, 2022

**Instructor:** Jia Xu

**Student name:** \_\_\_\_\_

**Student ID:** \_\_\_\_\_

**Student email address:** \_\_\_\_\_

- **Read these instructions carefully**
- Fill-in your personal info, as indicated above.
- You have 30 minutes.
- There is one question.
- Both computer-typed and hand-writing in the very clear form are accepted.
- This is an open-book test.
- You should work on the exam only by yourself.
- Submit your paper in class or PDF/Doc/Pages **by 15:30 Dec 12th** on Canvas for online students.

good luck!

# 1 Question

Select any Deep Learning model we have learned, such as LSTM, CNN, attentional mechanisms, autoencoding, reinforcement learning, etc.

(1) Describe the current limitation of your selected model [2.5 points].

(2) Propose a new method to improve your selected model [2.5 points].

(3) Describe how to implement your new method with pseudo codes [5 points].