

# CptS 434/534

# Neural Network Design and Applications

Instructor: Yan Yan

Spring 2021

# Course information

- Online class: 2:10-3PM, MWF via Zoom
- Instructor office hour: 4-5PM, Tue via Zoom
- Class announcement: Piazza and Blackboard
- Homework/project submissions: Blackboard
- Contact me: [yan.yan1@wsu.edu](mailto:yan.yan1@wsu.edu)
- TA: Md Rakibul Islam [mdrakibul.islam@wsu.edu](mailto:mdrakibul.islam@wsu.edu)

# Course goals

- Deep learning:
  - Advantages (over traditional ML algorithms)
  - Computational and statistical challenges
  - Key principles for learning
  - Types of DNNs
  - Able to apply them (designing & coding)
  - Able to understand research papers

# Grading

- 4 assignments
  - Analytical questions
  - Summarizing research papers
  - Implementation of DNNs
- 1 course project
  - Any research projects
  - Proposals by Feb 28
  - Teams: up to 2 students
  - 6-page report and presentation
- 1 midterm exam