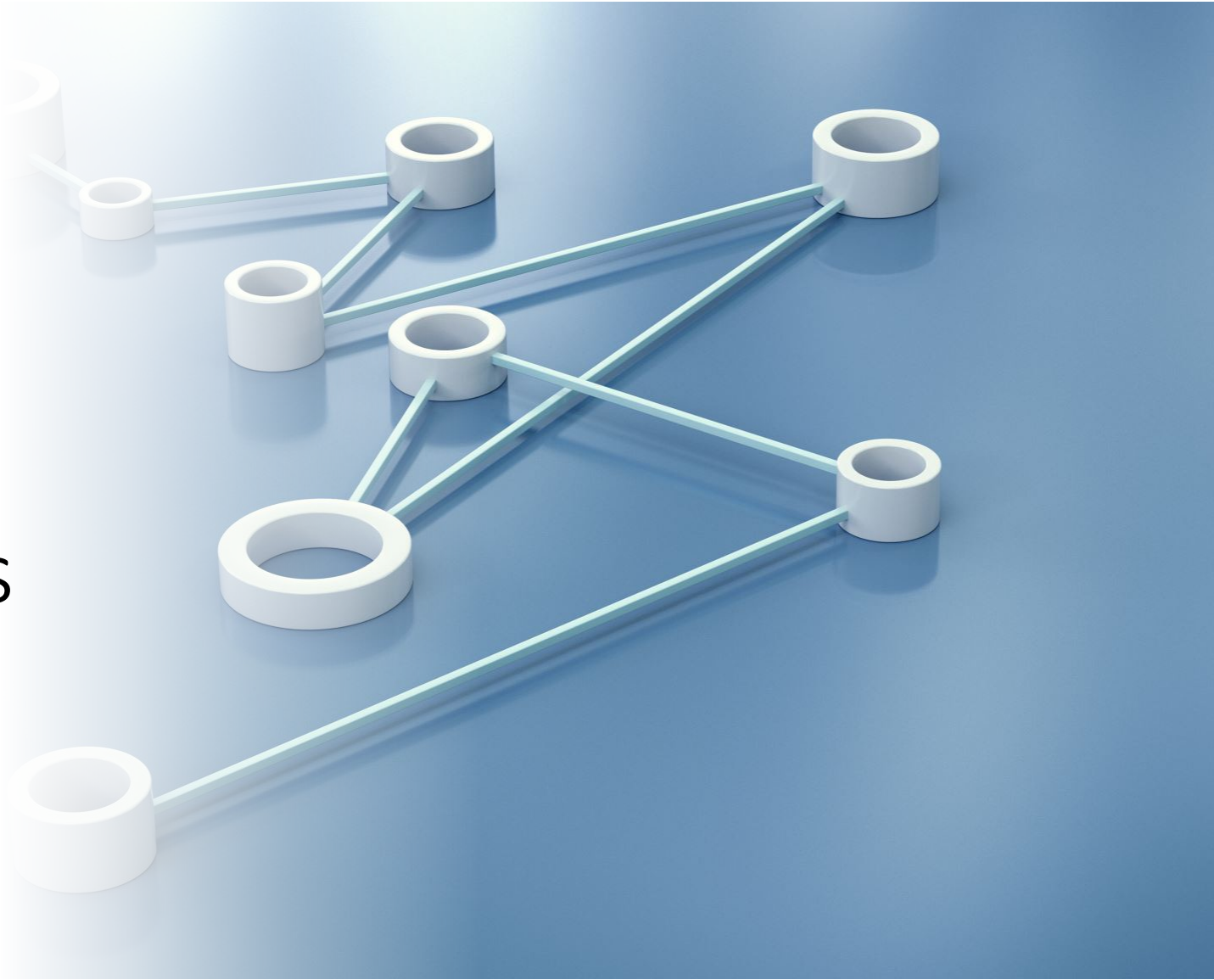# Data Structures

CS 2413-002

Spring 2025

Instructor: Ying Liu

What do data structures do?

- Representation of information is fundamental to computer science.

- The primary purpose of most computer programs is not to perform calculations, but to store and retrieve information – usually as fast as possible.

- Understand how to structure information to support efficient processing.

About me

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Lab

- Record a video with your explanation of your code
- Commit the code into your GitHub repository. Tutorial of using GitHub
  - https://docs.github.com/en/get-started/start-your-journey/hello-world
  - Beginner's Training Guide - https://www.youtube.com/watch?v=iv8rSLsi1xo
- Great a README page (Optional)
  - Detail the LeetCode problems solved in each video.
  - Highlight important points and tips.
  - Upload solutions for problems discussed in the videos.

Submission Instruction

- Submit your lab work on Blackboard by:
  - Sharing only the **link to the specific video file**.
  - **Do not submit the entire repository link.**

- Ensure the repository is:
  - Set to **public**, or
  - Add the TA and/or grader as collaborators.

- Late penalties will be determined based on the submission timestamp recorded in Blackboard.

Important Notes – Regarding AI

- While not encouraged, if you insist on using AI tools such as ChatGPT, you must provide an explanation and a detailed step-by-step process (the more detailed, the better). Failure to do so will result in the work being treated as plagiarism.

- Grading criteria: The detail of the process + text quality
    - If grading, we will apply the above rules.

- Thank you!