

# Final Project of Probability and Statistics for EECS

Network Intelligence Center (NICE)  
School of Information Science and Technology (SIST)  
ShanghaiTech University

December 8, 2025

# Project Requirement

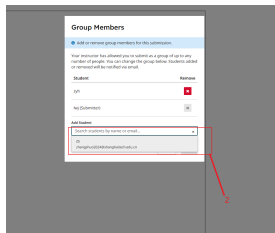
- Choose one and only one option
- The project can be done by a team with no more than **three** students.
- Your team is required to use Python for the programming part. Your team needs to submit all things in Jupyter Notebook format, including Python codes, simulation results, analysis, discussions, tables, figures, etc.
- Send the programming part to si140a\_02code@163.com and report to Gradescope.
- Always keep the academic integrity in mind and remember to give credit to any source that inspires you.
- Due date: **2026/1/20 10:59pm**

- In this project, we will allocate **10%** of the contribution score. Each group needs to explain the **contribution** of **each member** in their project file submission.
- This is to quantify each student's contribution accurately.
- If contributions are **not described** in the project file, we will **deduct** 10% of the score.

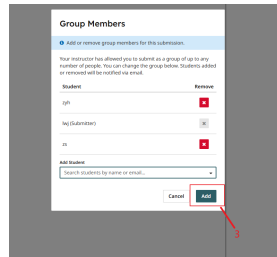
# How to Group on GradScope



(a) Step 1



(b) Step 2



(c) Step 3

Figure: How to Group on GradScope

- Project Option1: Bandit Learning
- Project Option2: Phase Transition
- Project Option3: Reverse Engineering the Mechanism of Wechat Red Envelope