

Lab project arrangement

Choose one of the following projects

1. Fundamental frequency monitoring
 - Real-time voice recording and F0 display via a GUI
2. Evaluation of English phoneme pronunciation
 - Record pronounced phoneme/speech, analyze, and provide rating/feedback for the pronunciation
3. Voice activity detection
 - Real-time voice recording and display VAD.
 - Test in noise background
4. Voice gender classification
5. Voice speaker identification
 - Register a target voice, and identify the ID of test voices
6. Other self-proposed topics

1. Three students per team.
2. Final presentation on **May 30** (week 16)
 - Labs at Apr 25, May 9, May 16 and May 23 are reserved for lab project
3. In lab presentation, 10 mins for each team
 - PPT introduction (~7 min) and demonstration (~3 min)
 - PPT includes (but not limited to)
 - Background, e.g., what is its importance and application, target population/application scenario, existing commercial products, **economic and social impact**, etc.
 - Your implementation (methodology, algorithms), workload assignment
 - Future improvement and new thinking (e.g., application)
4. Submit team-based presentation PPT, lab project and codes
5. Project report is due by **June 9**