Week 12 Report

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What I've done this week

- Performed offline evaluation of style-transfer model.
  - Calculated multi-resolution STFT (MRSTFT) error and perceptual evaluation of speech quality (PESQ) metrics for VTCK, DAPS and MusDB18 datasets using 9 different DAFX.
  - More useful as a judgement of comparable perceptual performance between DAFX types since we do not have a baseline.
  - Results can be seen in Figure 1.
- Started getting participants for MUSHRA evaluation.
  - 5 participants so far, however one of them just rated everything 100 for all trials, so I've removed those datapoints.
  - Summary of results so far from the 4 other participants are shown in Figure 2.
- Much of the rest of the week has just been spent working on the final report.

Questions

- I'm aiming to have a (very) rough draft of the final report done by the middle of next week. Would it be possible to get some high-level feedback if I were to send it to you both?
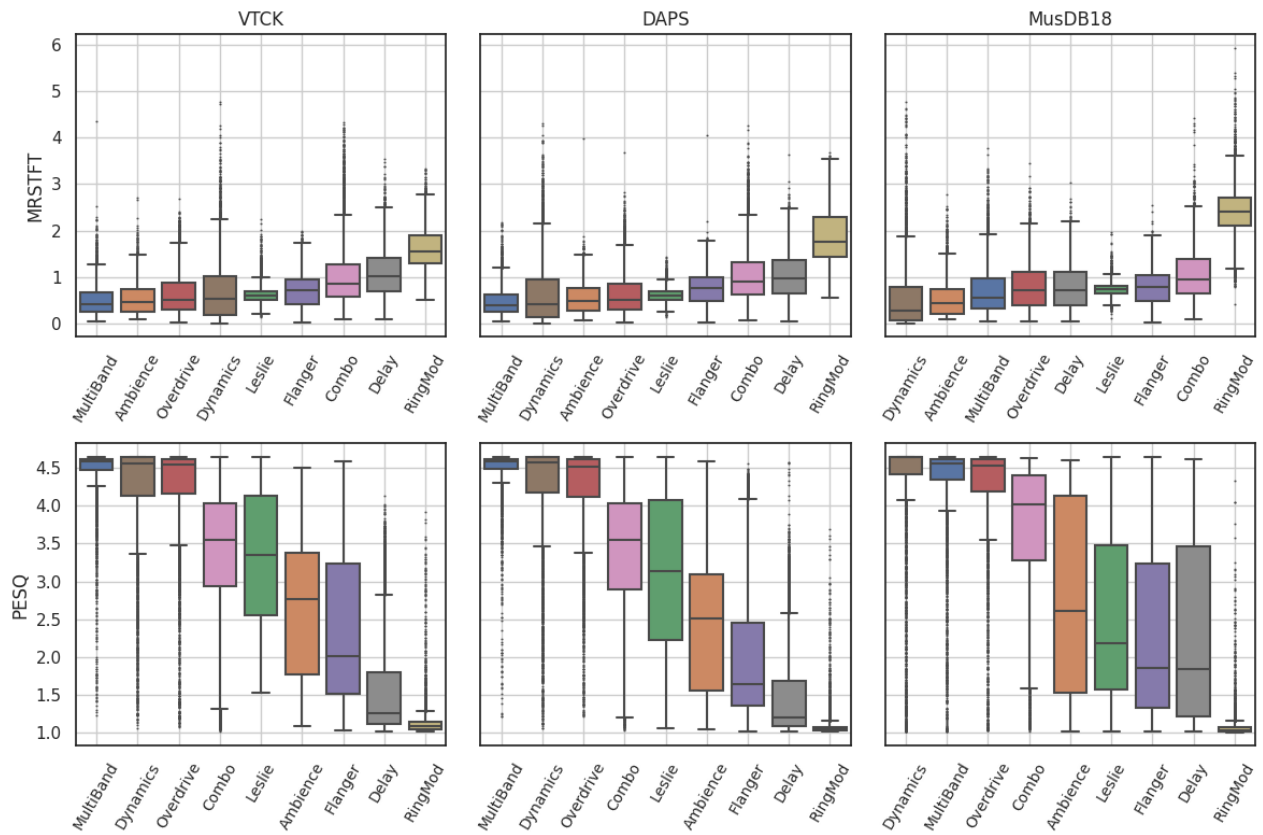
Plan for next week

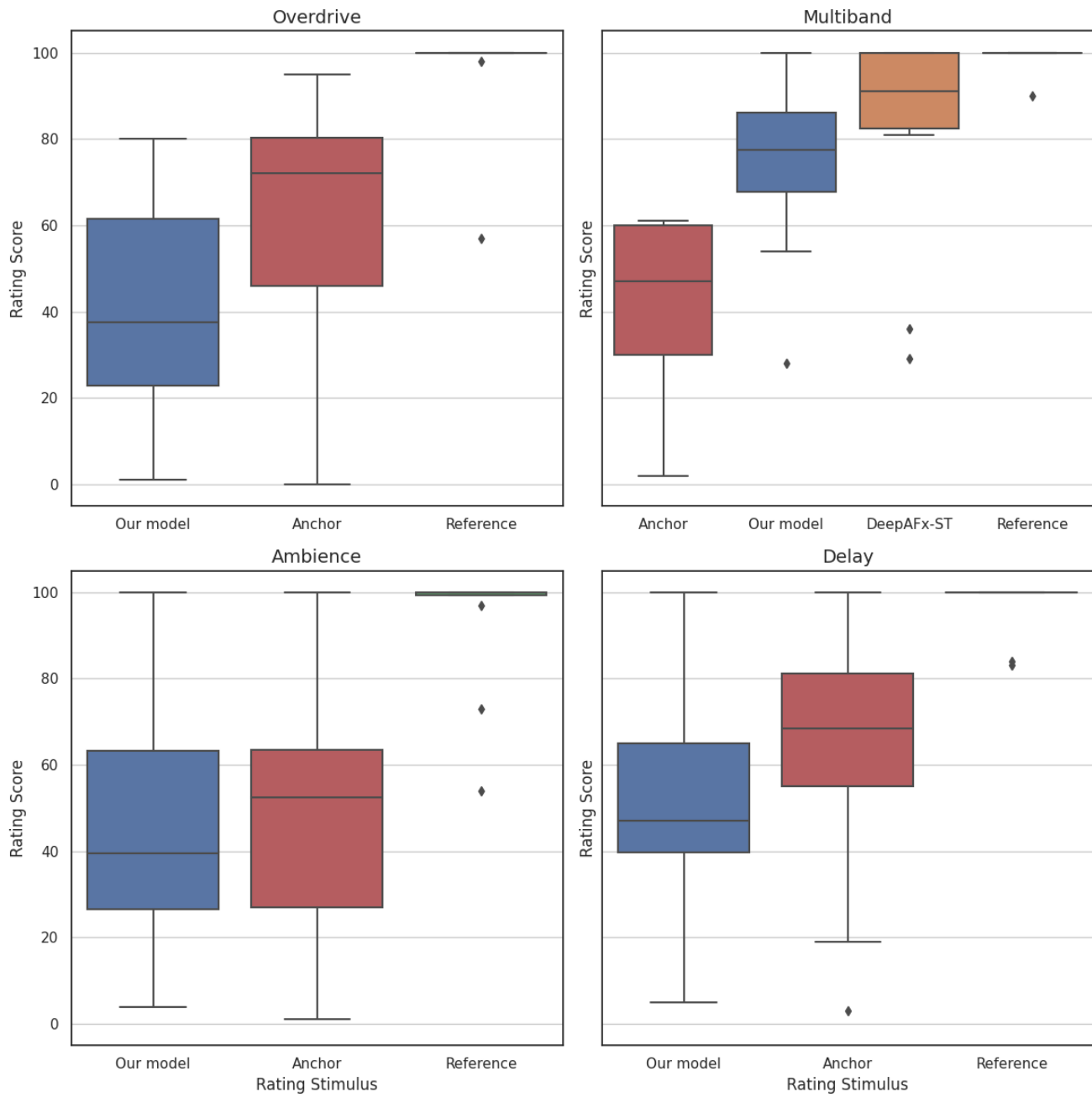- Rough draft of report.

Current state of project

- Mostly report writing and analysis of evaluation results left to do.

Dataset Evaluation

Figure 1: MRSTFT and PESQ scores across VTCK, DAPS and MusDB18 datasets. Lower is better for MRSTFT, higher is better for PESQ.

MUSHRA Evaluation

Figure 2: MUSHRA results so far from 4 participants.