

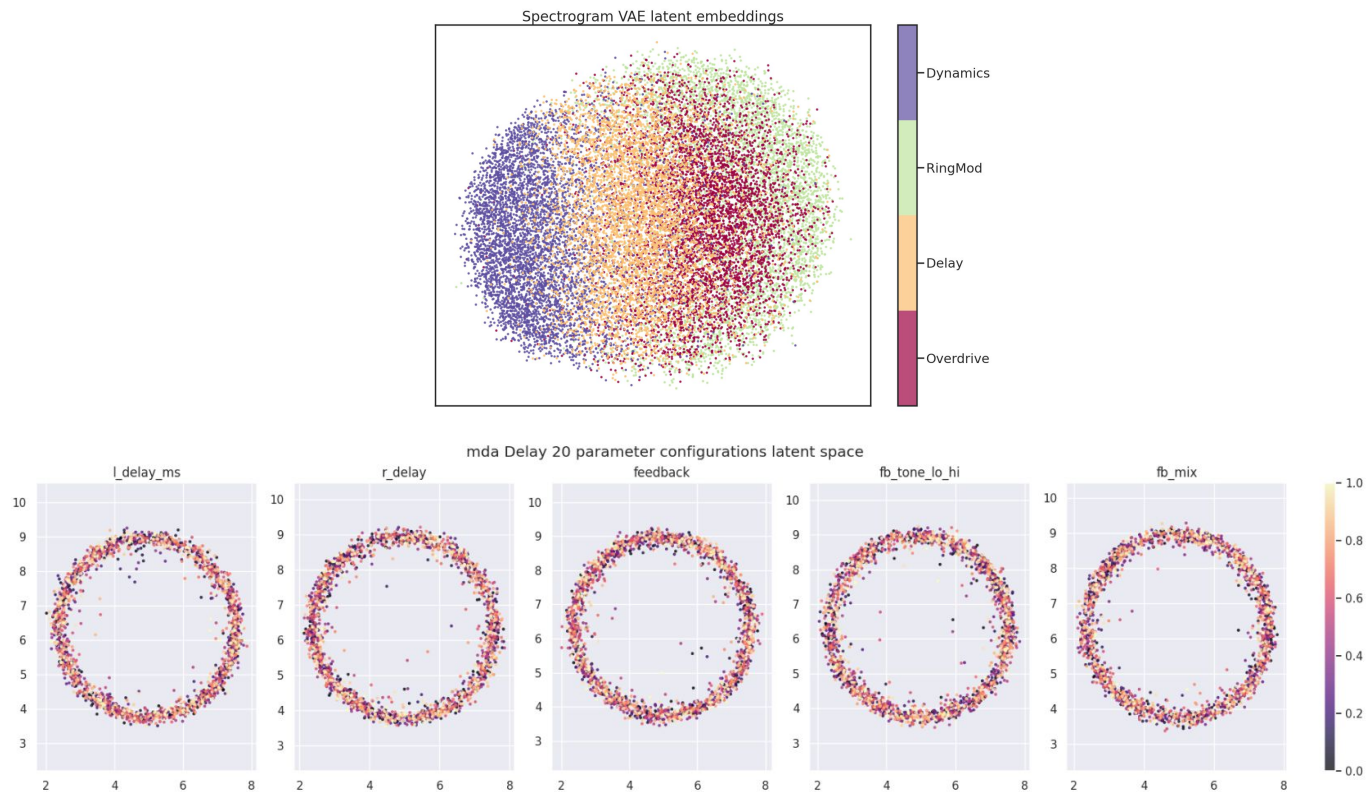
Week 10 Meeting

2357351G - MSci Half Project

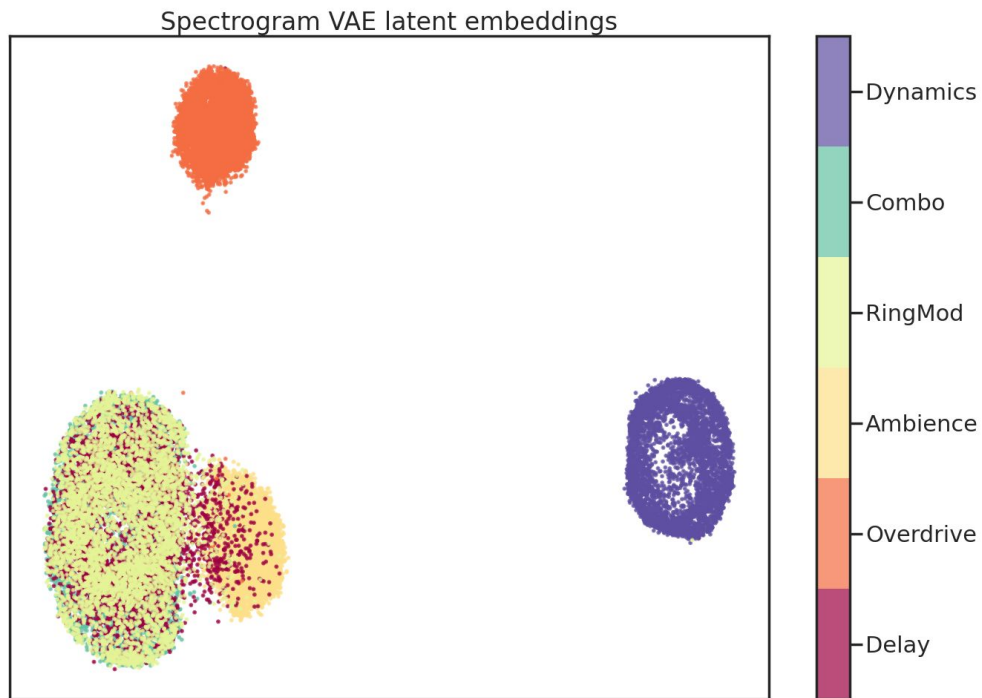
What I've done this week

- Modified Spectrogram-VAE implementation to reconstruct a single spectrogram with a smaller latent dimension.
 - Had issues balancing KL and reconstruction loss, so implemented cyclic annealing for the β -value which seemed to help.
- Started implementation of latent space controller.
- Continued writing report.

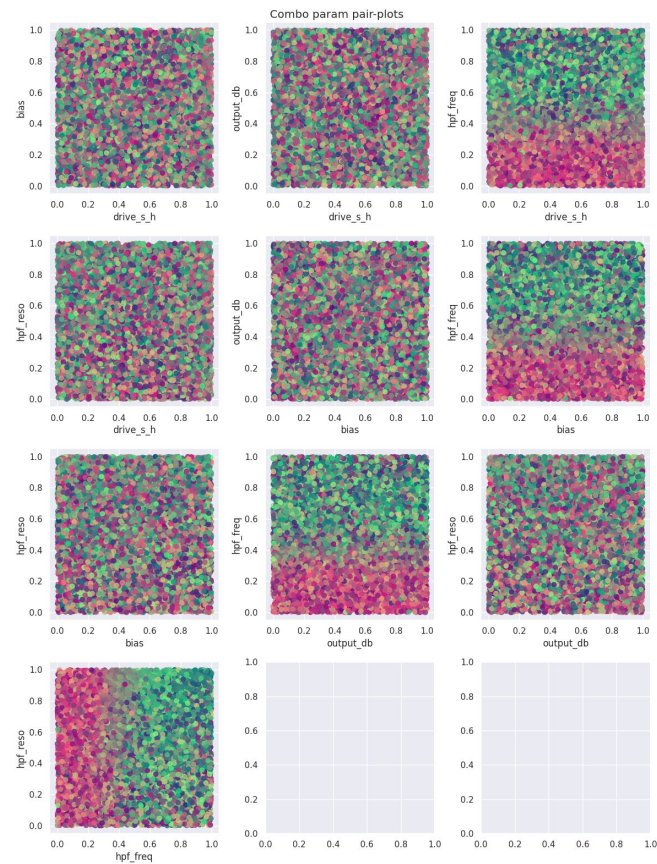
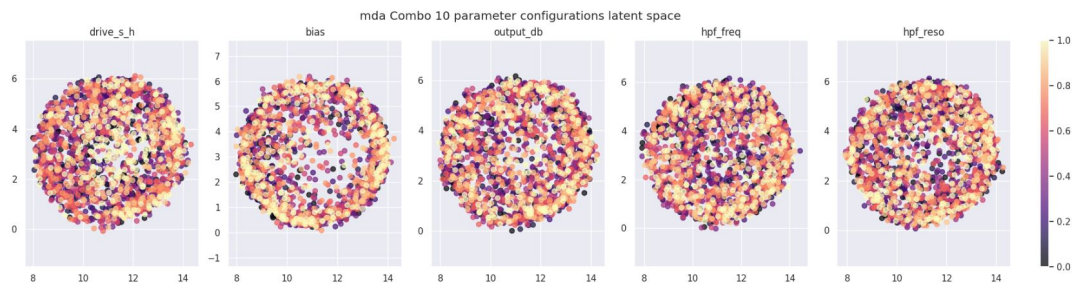
Low KL-loss model



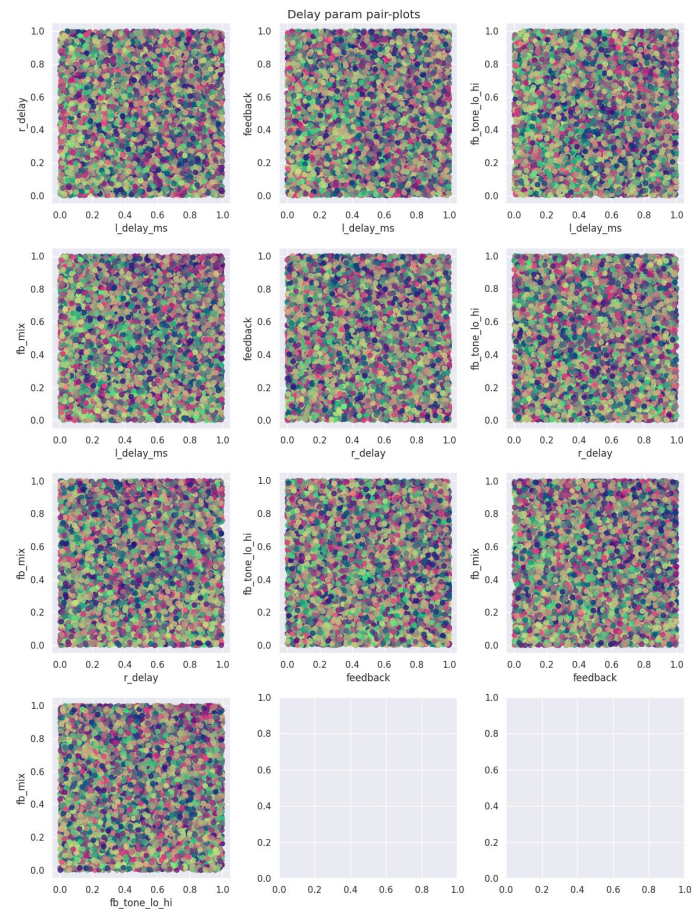
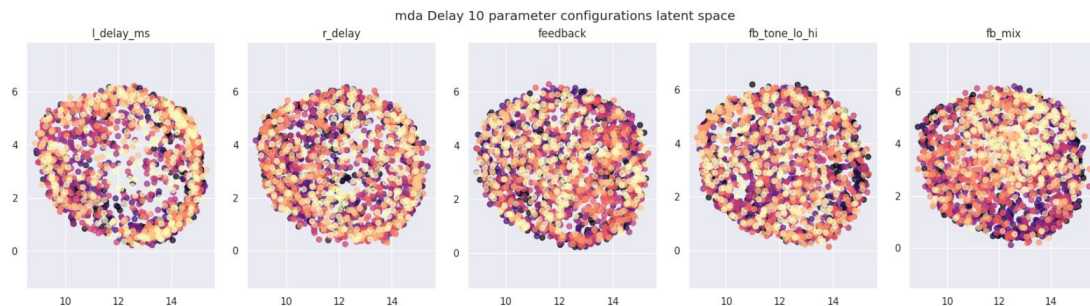
Best model latent space



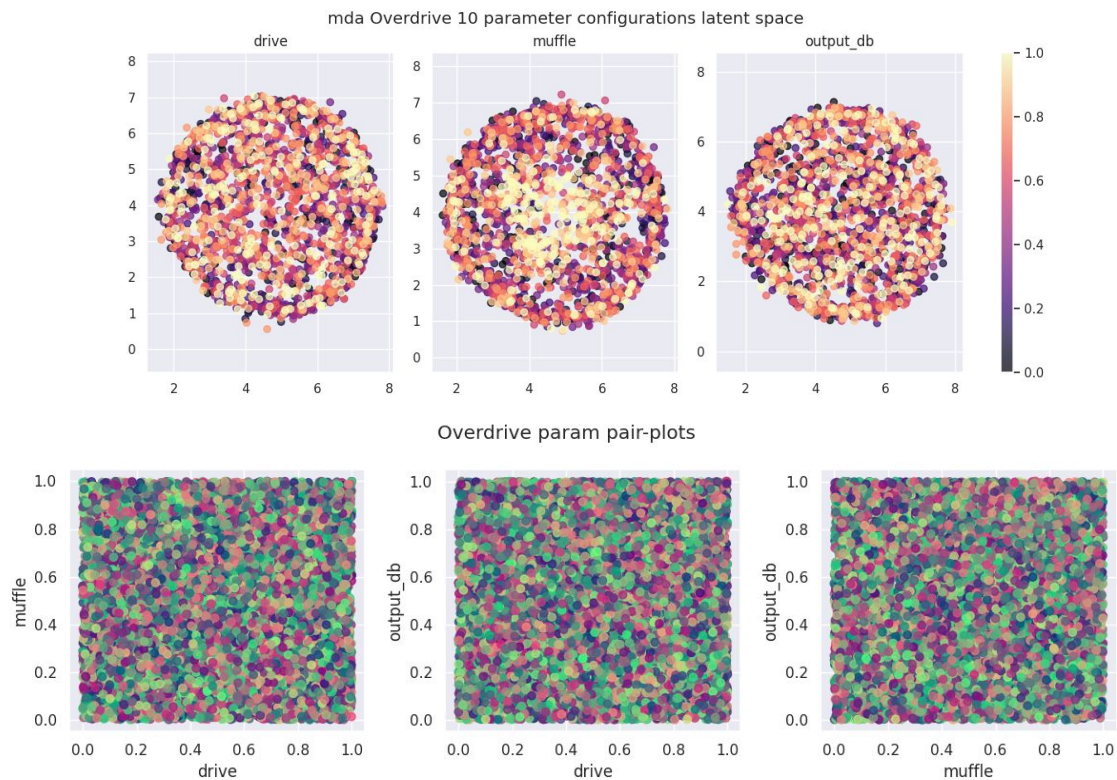
Combo Latent Space



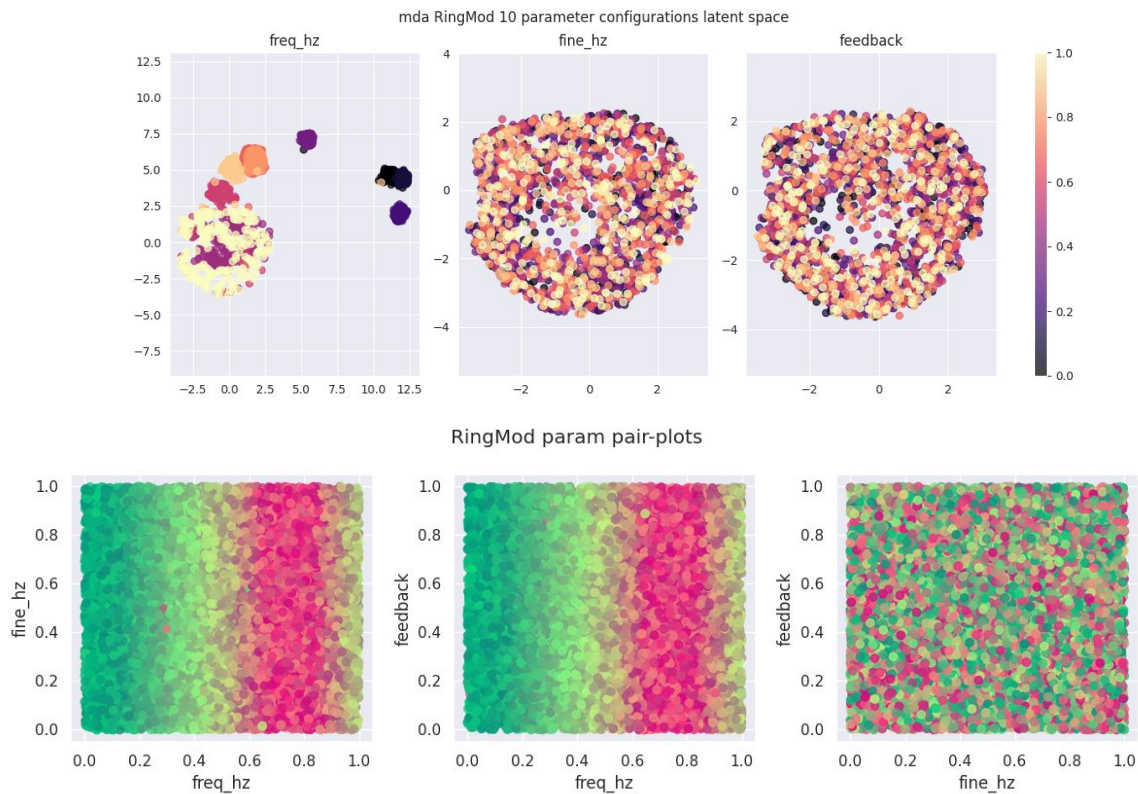
Delay Latent Space



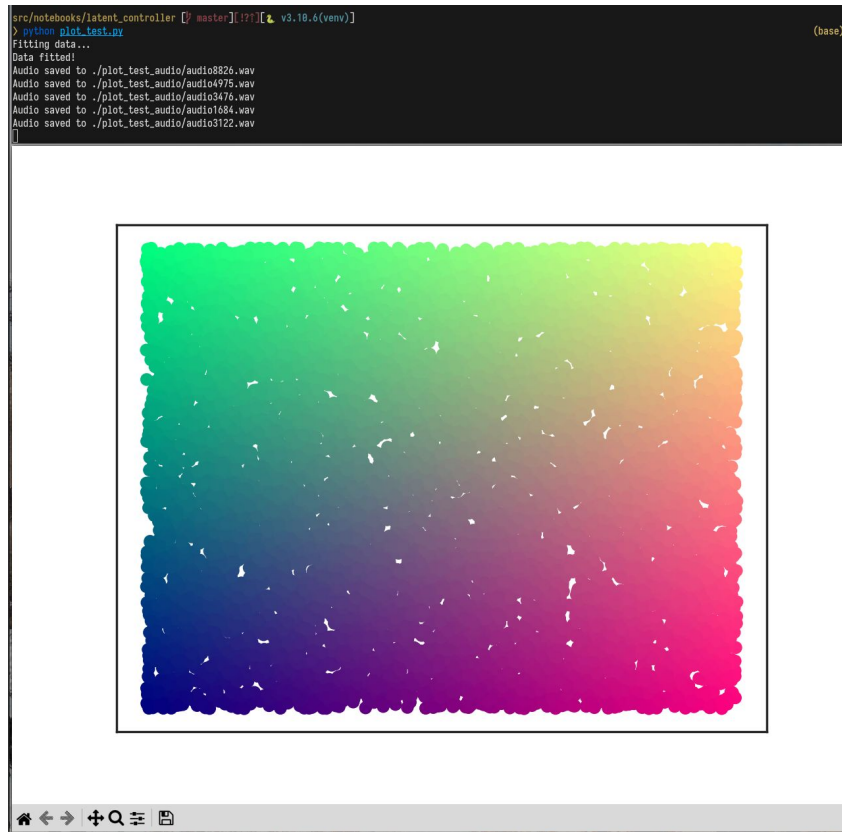
Overdrive Latent Space



RingMod Latent Space



Latent Space Controller



Questions

- Do you know roughly when the project presentation will be?
- For the latent space controller, I was hoping to have an interface similar to that in the linked video in the report. I.e. the user can just click on a datapoint and the audio automatically play. However, I'm not sure if something like this is possible with matplotlib? I've tried adding callbacks with `IPython.display`, but this doesn't seem to work.

Plan for next week

- Finish implementing latent controller interface.
- Train end-to-end model for each effect.

Where I am in schedule

- Still pretty poor structure to latent space of Spectrogram-VAE, not sure if there is going to be any dramatic improvement in the next week before I have to move on the evaluation.
- I would like to get a rough draft of the final report in by the 31st March for feedback.