

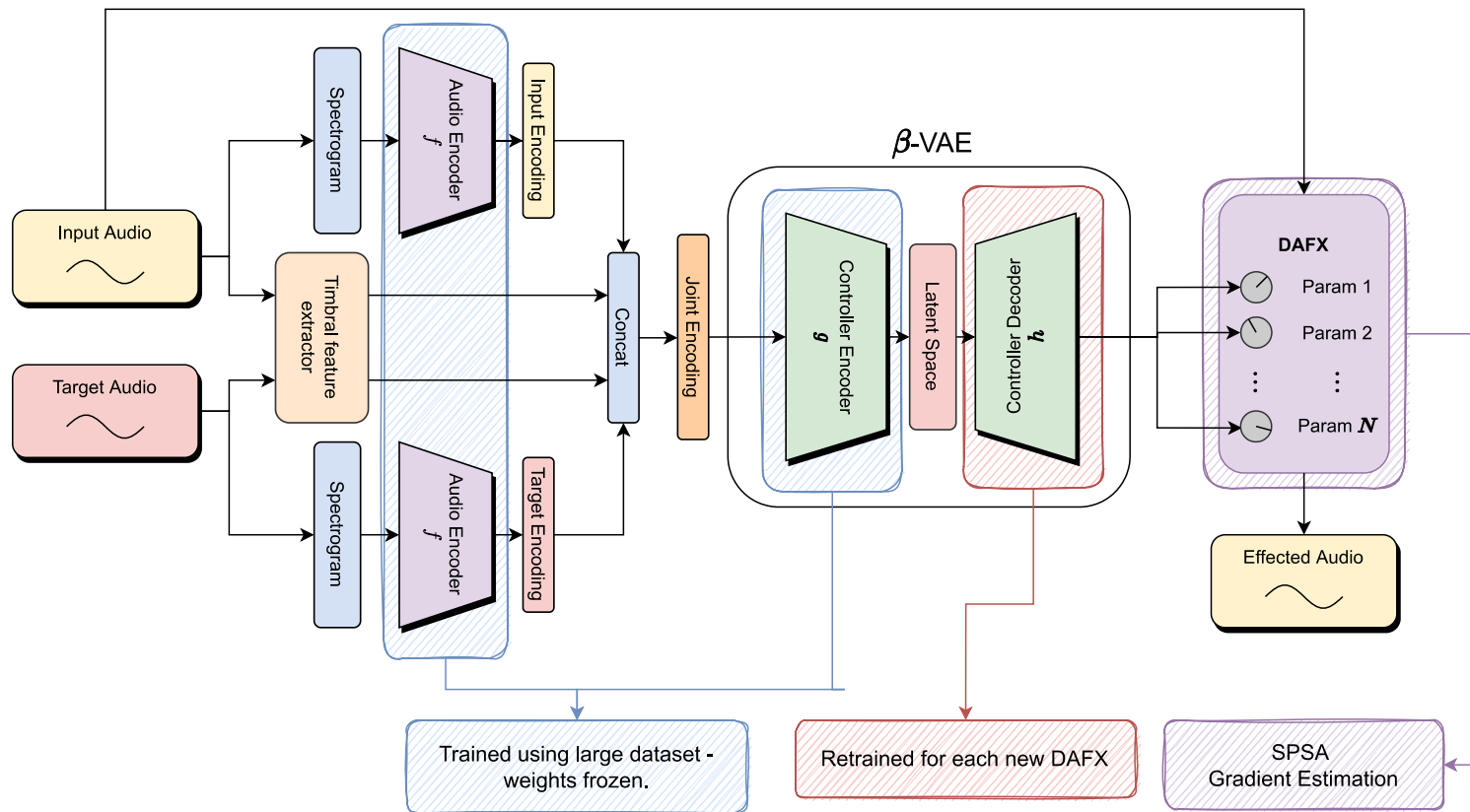
Week 12 Meeting

2357351G - MSci Half Project

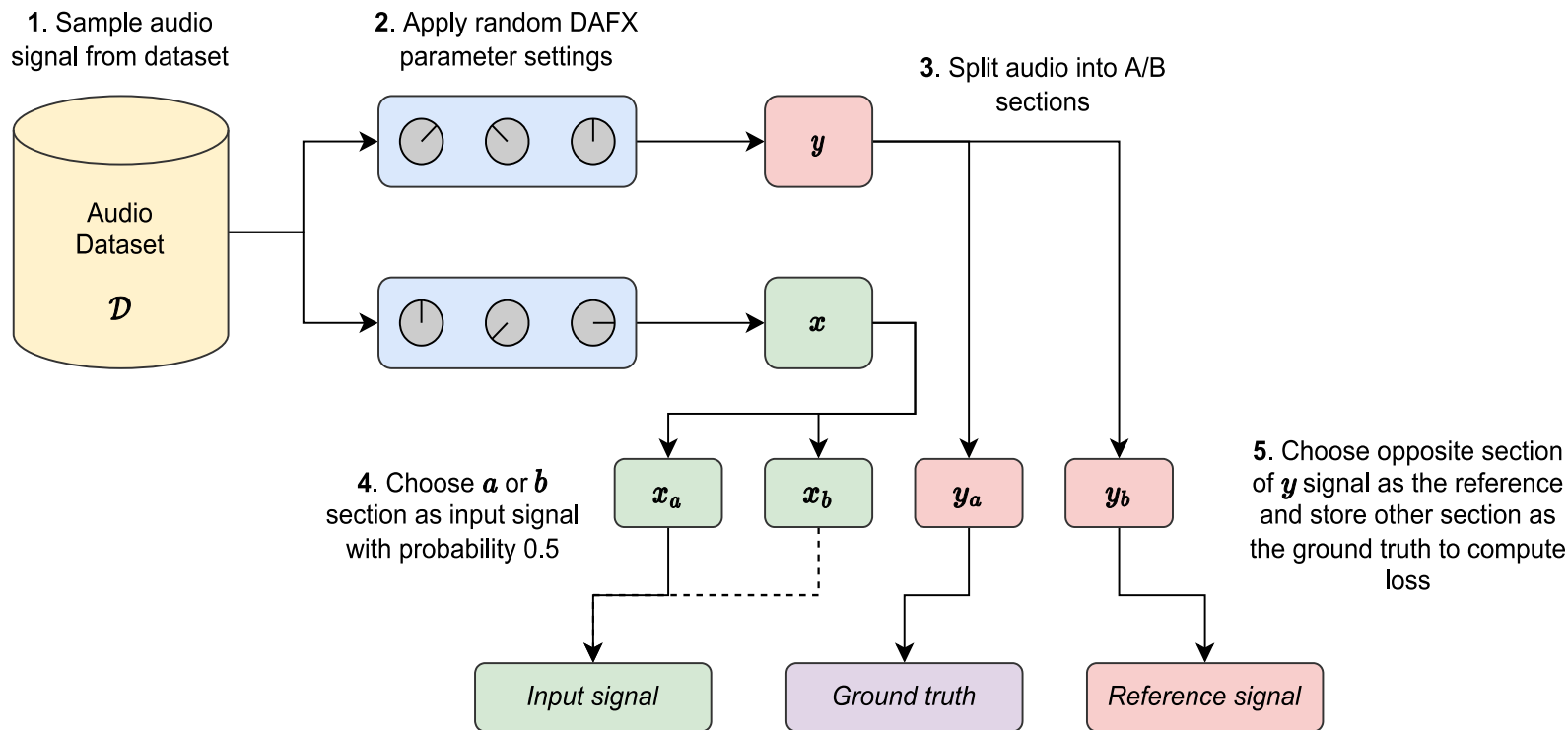
What I've done this week

- Completed a first draft of the interim report.
- Spent a little bit of time looking for a Linux-compatible VST3 Parametric EQ, but didn't have much luck - I'll continue looking for something suitable!
- Didn't have time for much programming this week due to writing up the interim report and final coursework submissions, will pick this up again next week. Made a start on SPSA toy-examples.
- Read and summarised *DrumGAN: Synthesis of Drum Sounds With Timbral Feature Conditioning Using Generative Adversarial Networks (2020)*.
- Updated architecture diagram to include timbral feature extraction as additional input to the VAE section.
- Created a diagram for data generation strategy.

Architecture Diagram (updated)



Dataset Generation



Questions

- No specific project questions, any initial thoughts/feedback on interim report would be appreciated!

Plan for next week

- Finish SPSA example discussed last week.
- Create small 'test' dataset using generation method, check that parameter values are sensible (i.e. not silence or just noise).
- Start implementation of data preprocessing (including AudioCommons feature extractor) and dataset loading into model.
- Start implementation of DAFX into model with SPSA.
- Second draft of interim report.

Where I am in schedule

- First draft of interim report submitted.
- Main focus for the next two weeks is finalising basic model implementation and training dataset.