

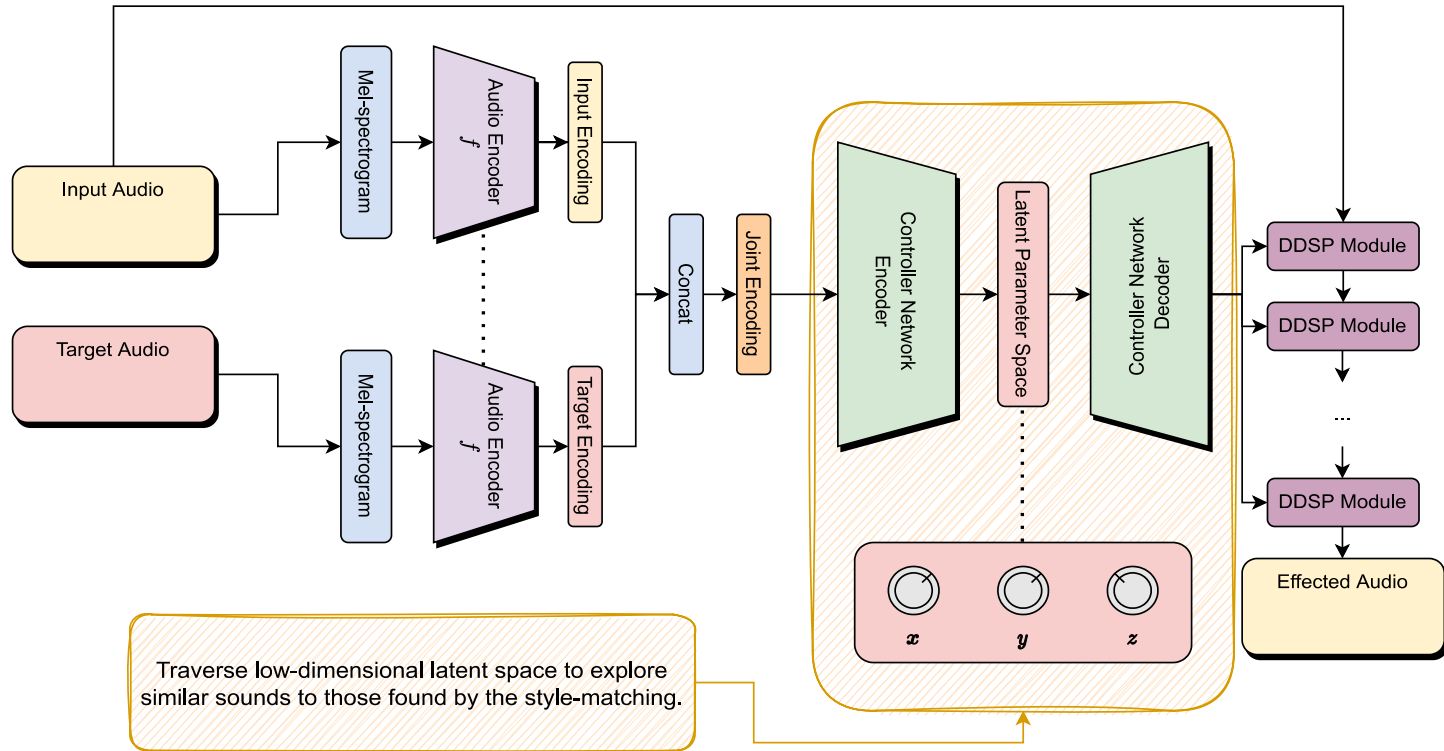
Week 9 Meeting

2357351G - MSci Half Project

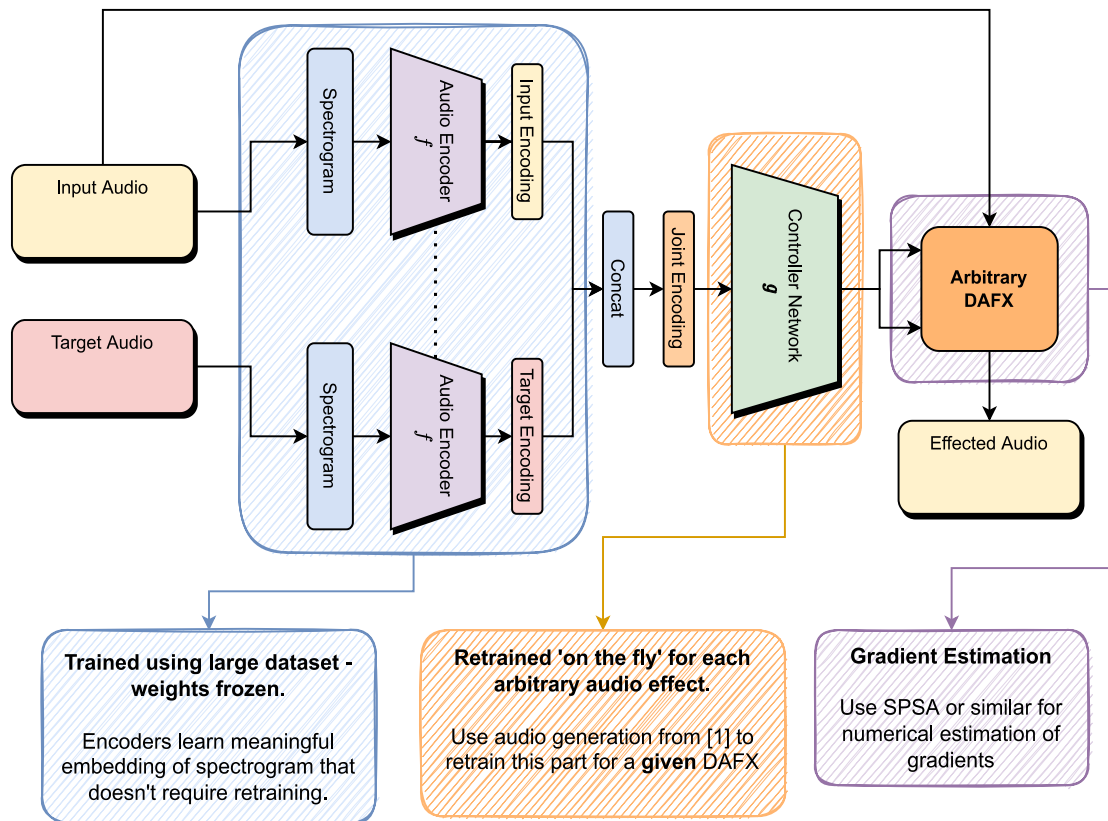
What I've done this week

- Not had much time to spend on the project this week - should be back to normal from the middle of Week 9.
- Met with Krzysztof after John's introduction and discussed respective projects and ideas.
- Signed up to both Weights and Biases and the Andrew Ng newsletter as discussed last week.
- Created architecture diagrams for two of the main ideas I had for project direction.
- Read and summarised *One-Shot Parameteric Audio Production Style Transfer with Application to Frequency Equalization* (2020).

Architecture Diagram 1



Architecture Diagram 2



Questions

- Organise papers read/to be read into groups for interim report literature review.
- Prepare a mental plan of where I'd like to be by Christmas.
 - Plan of what to do in remaining weeks to achieve it.
- Start Neural Nets for Generating Audio series.
 - Use W&B to track model training.
- Try to get Style Transfer code working locally.

Plan for next week

- Read more style transfer papers.
- Organise papers read/to be read into groups for interim report literature review.

Where I am in schedule

- Getting a good idea of the state of the field.
- Need to start actually implementing some models and create a plan for organising project as well as data generation, how evaluation should be performed.

References

[1] Steinmetz, Christian J., Nicholas J. Bryan, and Joshua D. Reiss. "Style Transfer of Audio Effects with Differentiable Signal Processing." arXiv preprint arXiv:2207.08759 (2022).