



Week 7 Meeting

2357351G - MSci Half Project



What I've done this week

- Read *Speaking About Sounds: A Tool for Communication on Sound Features* (2017).
- Read and summarised *Style Transfer of Audio Effects with Differentiable Signal Processing* (2022).
- Did another iteration of using the AudioCommons timbral extractor models to analyse the effect of applying EQs using the terms in the SAFE-DB dataset.
- Did some analysis on the SocialFX dataset, however I have yet to find a way to apply the effects from the dataset to audio in the same way as the SAFE-DB dataset.
- Thought about what inputs/outputs of the model should be and I think raw audio might be the most flexible - can still use parameter prediction within the model itself.
- Considered a slight change of direction to the project - looking at some of the future work proposed in the *Style Transfer* paper.

Questions

- I'm starting to have doubts about whether natural language is the best way to describe sound characteristics, and whether using reference tracks and style transfer may be more quantifiable. I still believe all the reading I have done into music language will be useful, but maybe more as a counter argument to why it is quite poorly defined. I would be interested to hear feedback on this potential slight change to the aim of the project.

Plan for next week

- Do some more reading into style transfer for (music) audio.
- Try to find papers relating to how reference tracks are used to describe timbre (rather than natural language).

Where I am in schedule

- Getting a better understanding about how useful semantic descriptors are for capturing timbral features.
- Need to spend a bit of time exploring alternatives that may be more natural.