Exploring 3-Dimensional timbre interpolation

Sound synthesis has a rich history.

**Introduction (15 points)**  
- What is your (broader) topic?  
- Why is this topic relevant?  
- Explain your specific research question  
- Why is your research question important? Why should others care about your work?  
- Summarize existing research in your area and explain how your work is different from what has been done so far  
- In broad strokes, summarize your method and your results (2-3 sentences)

**Data & Methods (40 points)**

- What data do you use? Why do you choose the data? How did you acquire the data, what time range does it cover, who/what is included and excluded from it, and why?  
- Explain each of the technical components of your research project in detail. If you train a classifier, explain the train/test set split, the specific method, the parameters, etc. If you use a pretrained model, explain how it was pre-trained. If you use an unsupervised or model-free approach, explain how it works. How does your method build on existing work?  
- You should give enough detail so that a researcher with sufficient technical skills in the area would be able to replicate your work just from reading your data & methods section

**Results (30 points)**  
- What do you find?  
- If your primary goal is analysis/inference, how do your results answer your research question?  
- If you train a classifier, how does it compare to existing models? How does it compare to a baseline model?  
- How does your classifier work with different features? How does it work with different subsets of the data? Do the hyperparameters affect the results?  
- Explain with statistics, use tables and figures  
- If your project’s output is an online demo, show it and write a brief documentation if necessary.

**Conclusion (15 points)**  
- Summarize your research  
- Summarize your contribution  
- If you had more time and resources, what can be improved and what would you do next?  
- Is there any closely-related research that others should attempt?