

## Results:

- The pred\_rnn.wav file is the LSTM prediction for Bach, and if you listen to it you can pretty clearly hear both the overfitting and the lack of sound quality.
- rnn\_predictions.png and original\_wave.png compare the wave plots of the LSTM prediction and test data at one specific point. Rnnpred1.png and orig1.png are also a comparison of a wave from the original song versus the LSTM prediction for additional reference.
- SpecGan.wav is the music that was generated by using SpecGan, and GenerateBach.wav is the music that was generated by using the WaveGan. You can hear that WaveGan does a much better job of replicating the style of Bach's music, while the SpecGan is just very screechy and not great all-around.
- SpecGan.png and WaveGan.png show the wave plots of the generated music by the respective GANs.