

Summer contract 2018

Phase 1: Pre- and post-processing data

*Benchmark 1, June 30<sup>th</sup>*: Be able to generate a log-mel spectrogram from audio

*Benchmark 2 (w/ meeting), July 7<sup>th</sup>*: Be able to generate audio from a log-mel spectrogram

Phase 2: Learning with Michael Nielsen's online book, "Neural Networks and Deep Learning"

*Benchmark 3 (w/ meeting), July 21<sup>th</sup>*: Finish up to the ch. 2, remaking the simple NN in ch. 1-2

*Benchmark 4 (w/ meeting), August 11<sup>th</sup>*: Finish up to ch. 5, remaking the complex NN in ch. 3-5

*Benchmark 5, August 23<sup>rd</sup>*: Finish the book (6 chapters total), remaking the CNN in ch. 6

Justin Zhang

John Yang 6-13-18

Xia Mao

Mao 6-13-2018