This project will construct and implement a recurrent neural network in Python that has been designed to write musical melodies and evaluate the output. It will also investigate the philosophical implications of an artificial brain that has the attributes of a human mind.

This research topic may be abstracted to the question "Can machines think?". However, this question is reductive as the semantic term "think" really can only apply to human beings who have associated emotional states and conscious experiences. Rather, a better question is "are machines assuming cognitive traits and capabilities normally associated only with people?" Examples of such capabilities include intuition, conversation, and empathy.

This paper will approach this question from the perspective of creativity – can modern AI algorithms imitate a human's ability to create?