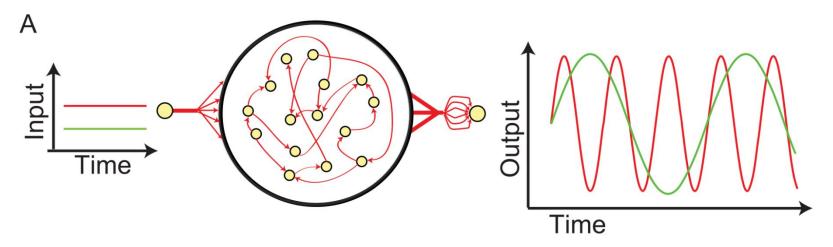
Task

- I trained a recurrent neural network (RNN) on the sine wave generator task.
 - Sussillo & Barak, Neural Computation (2013)
- This task involves giving the RNN a static input and transforming that input into a frequency. The RNN then outputs a sine wave with that frequency.



Results

- We choose to analyze the trained RNN with the dynamical view.
 - The network learned a limit cycle.

- However, we would like to note that the manifold view could apply.
 - The network learned a manifold of limit cycles.
 - In order to readout different sine waves, the input would drive the RNN to a new point on the manifold.

