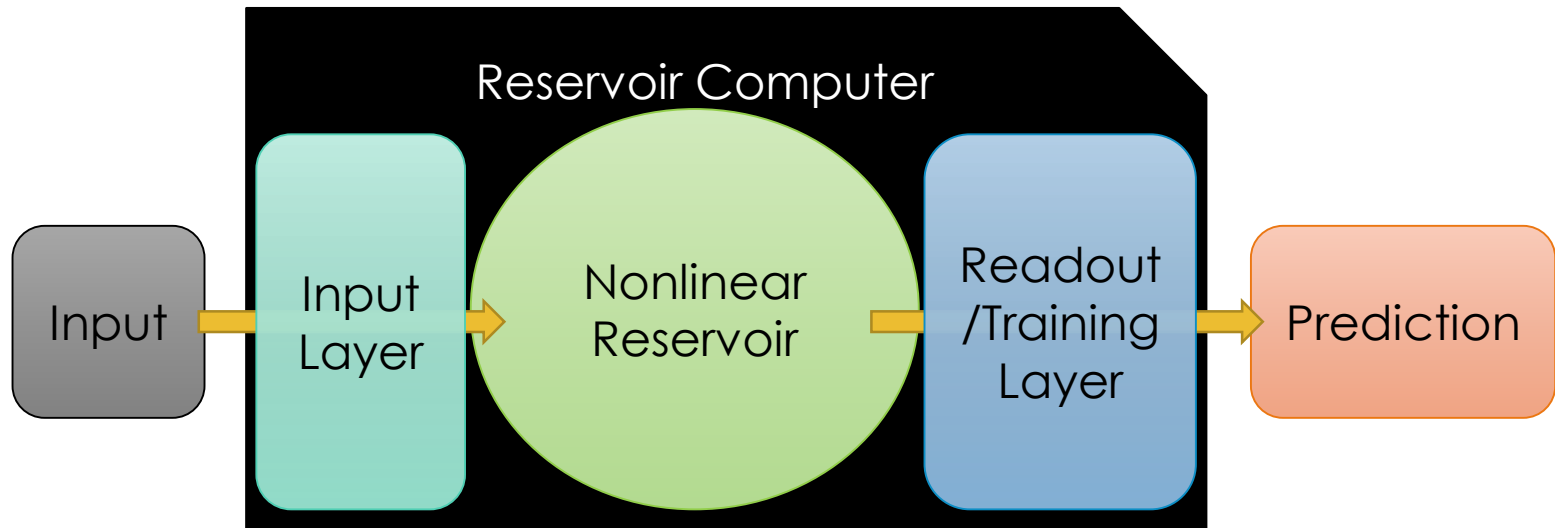


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Research topic: Machine Learning with Reservoir Computing



Working with Prof. Henry Abarbanel (UCSD), other grad students, and Dr. Stephen Penny's group based in Colorado

Exploring theory and application to high-dimensional dynamical physical systems (like weather).

I've tested on a few dynamical systems so far including Lorenz 63 and 96 equations.

Self-developed software using algorithms found in literature

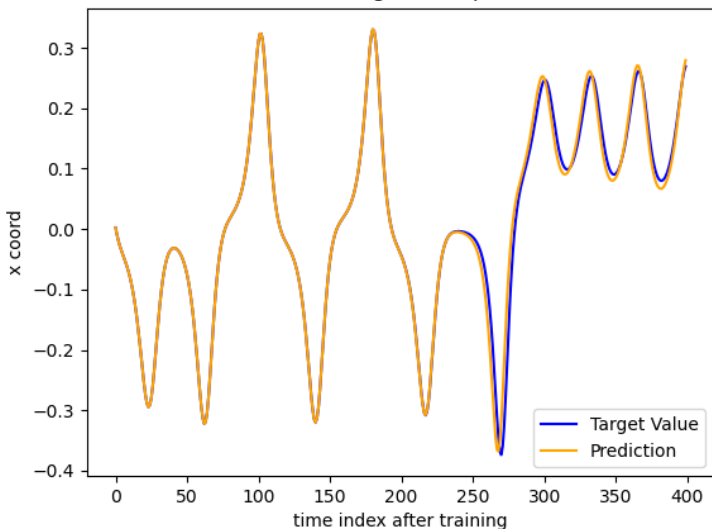
Real world application relies on gathering a sufficient amount of experimental training data

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Goal at SDSC SI2020: learn how to use supercomputing resources to do hyperparameter searches and large matrix multiplications for high dimensional (example: more than 11-dimensional) systems, and for future research.

L63 after training timesteps: 0 - 5000



L63 after training timesteps: 0 - 6000

