

# Location Independent Weather Forecasting

Rebecca Leong and Andrew Pillsbury

# Data



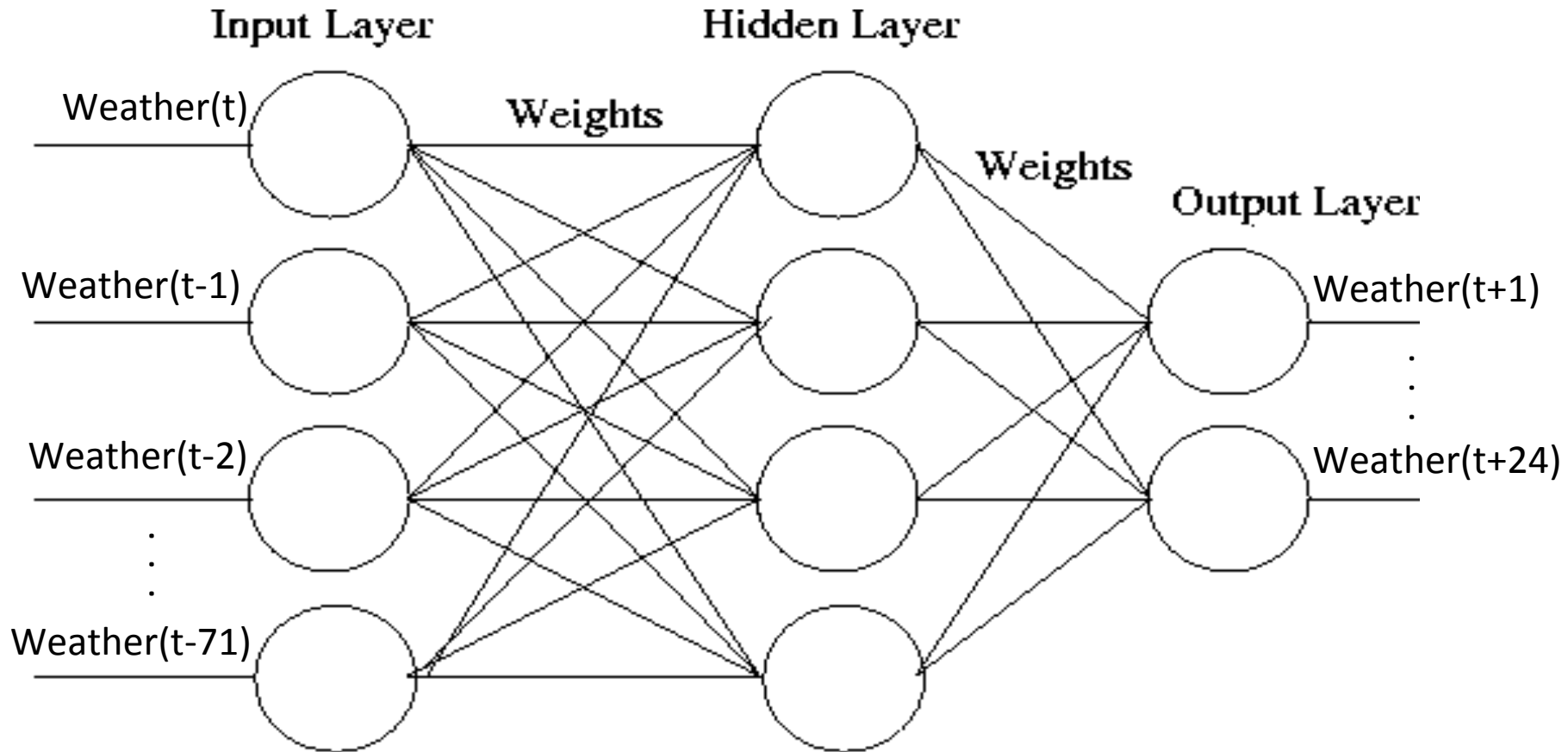
**9 Cities:** One from each climatological region in the continental United States

**8760 Readings per City:** one every hour in 2013

**6 Features per Reading:** temperature, dew point, visibility, wind speed, wind direction, pressure

*All data are Quality Controlled Local Climatological Data from the National Climatic Data Center*

# Neural Network



# Results

[www.cs.dartmouth.edu/~leongr/WeatherForecasting/](http://www.cs.dartmouth.edu/~leongr/WeatherForecasting/)

# To Do

- Determine optimal number of hidden layers
- Determine optimal number of nodes per layer
- Determine optimal number of input hours
- Make the network dynamic?