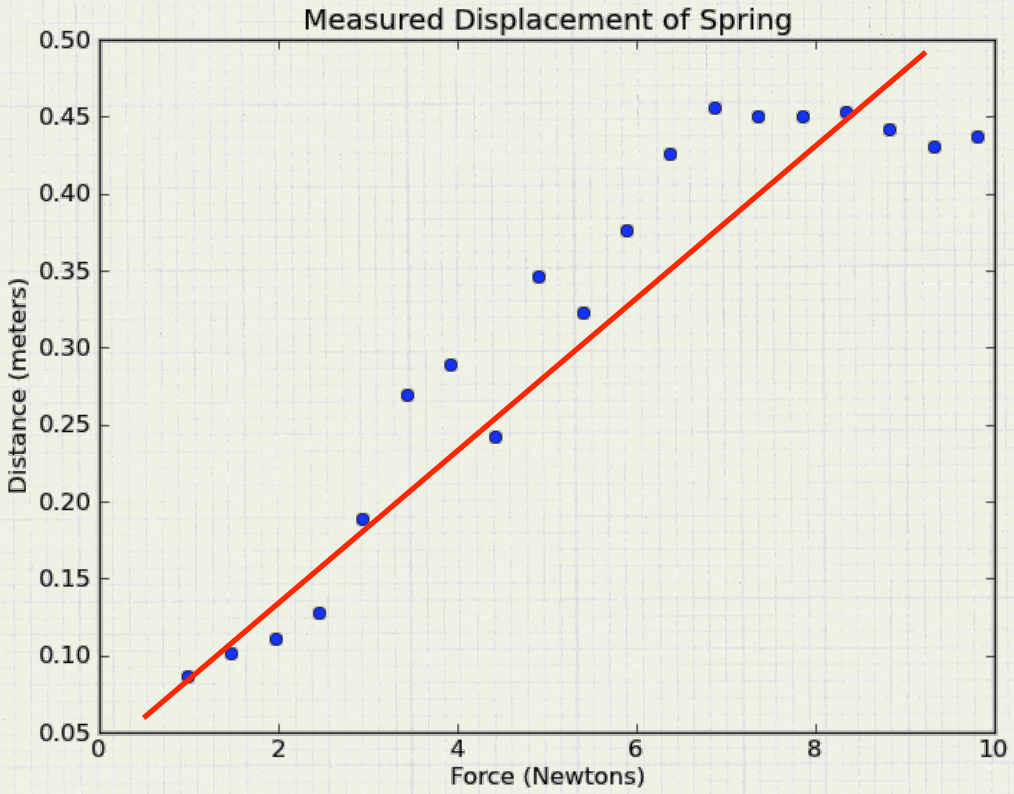
Have: observations, Want: most likely line



Log Likelihood

$$\text{Maximize} \prod_{i=0}^{len(obs)-1} L_{err}(obs_i - pred_i)$$

Least Squares

pylab.polyfit(xvals, yvals, degree)

```
# find a, b that minimize
# sum((yvals-(a*xvals + b))**2)
a,b = pylab.polyfit(xvals,yvals,1)


# find a, b, c that minimize
# sum((yvals-(a*xvals**2 + b*xvals + c))**2)
a,b,c = pylab.polyfit(xvals,yvals,2)
```