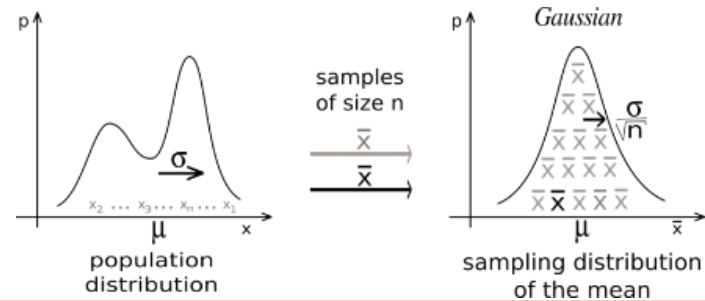


# Home assignment #1

Sensing,  
perception, and  
actuation

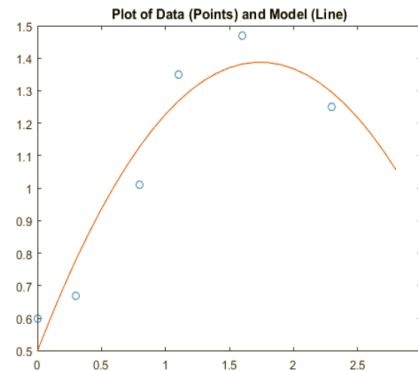
## Home assignment 1.1: Check the Central Limit Theorem by

- building two-modal distribution (like above) generating many points,
- taking samples (e.g. 100 values) and computing mean value,
- plotting distribution with mean values from many samples



## Home assignment 1.2: Apply polynomial or nonlinear regression for data analysis by

- generating noisy data points (with nonlinear relationship, i.e. mix a model points + noise points),
- using least square regression or pseudoinverse or `optimize.curve_fit` methods (on your choice)



or

