

0) LOAD DATA FROM LINEARDATA.mat

1) FIT A STRAIGHT LINE $w_0 + w_1 x$

2) COMPUTE THE ML ESTIMATE OF
VARIANCE OF OBS. NOISE, σ^2

0) LOAD DATA FROM NONLINEARDATA.mat

1) FIT A POLYNOMIAL OF DEGREE M
ON THE FIRST 130 DATA POINTS

2) USE THE LAST 20 POINTS AS A
VALIDATION SET, TO COMPUTE
THE MEAN ROOT SQUARE ERROR
AND CHOOSE THE BEST M ,
FOR M IN THE RANGE $[1, \dots, 30]$!