

MATH-UA 252/MA-UY 3204 - Fall 2022
Homework 2

Sept. 28 By Your Grader

Rubrics for Homework 2:

Notice: I divide this whole problem into many tiny parts to give scores to students.

Part 1: 1 point for using *np.random* to choose (c_1, c_2, c_3) .

Part 2: 1 point for picking N and sampling N x_i 's.

Part 3: 1 point for computing y_i .

Part 4: 2 points for Gauss-Newton function.

Part 5: 1 point for adding a small amount of noise to the observed y_i 's.

Part 6: 1 point for making a plot of the predicted function.

Part 7: 1 point for evaluating the MMSE.

Part 8: 1 point for trying different sets of parameters to go through the whole process.

Part 9: 1 point for giving an explanation for your findings.