

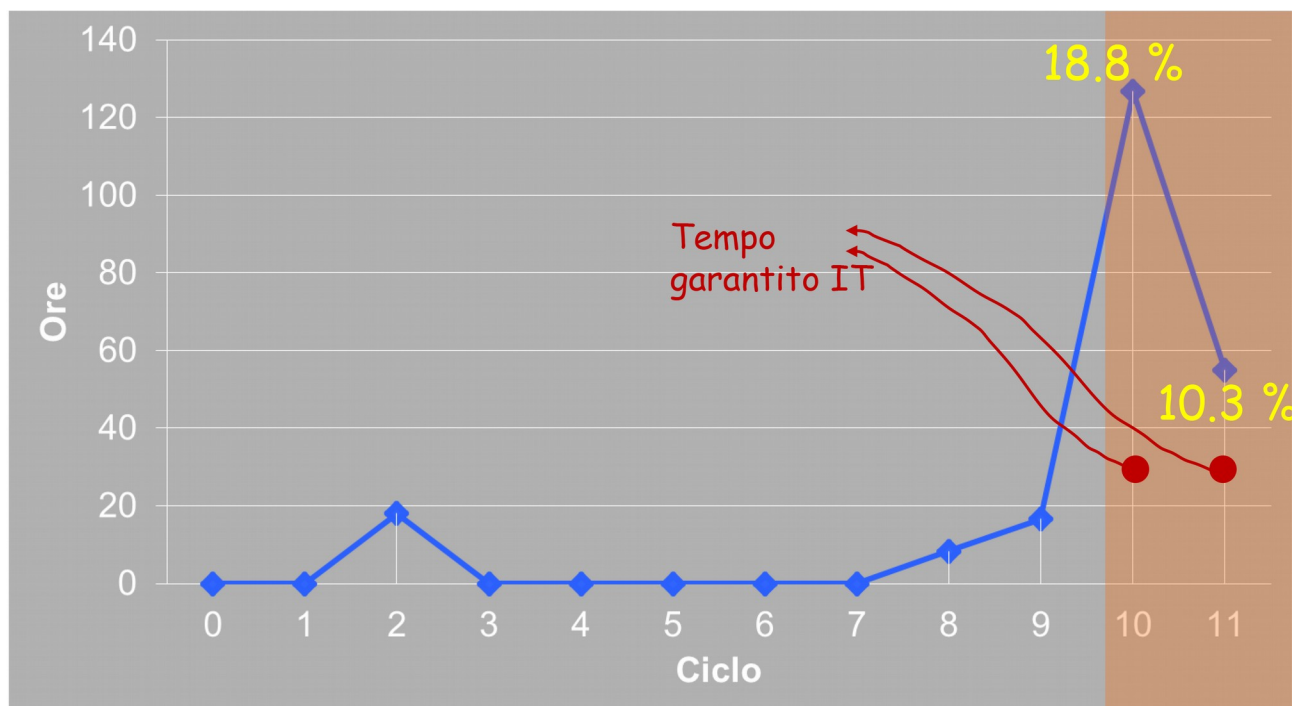
Recovery exercises for 3rd python lesson

Exercise 1

Given the file `data_python3.txt` file available in the lessons repository
read the file,
write a function to fit `y_data` as function of `x_data`
(suggestion: use a sigmoid function and `scipy.optimize.curve_fit` with
`bounds=([0., 600.], [0.01, 1200.])`)
plot the data and the fit function with different colors

Exercise 2

Given the figure below



representing the observation time reserved to an italian Project Investigator (PI) in the context of an international Telescope, write the python code to re-produce the figure, not necessarily identical, but similar as much as possible and containing the same information. Change all labels in english language and add a legend indicating: red-italian time, blu-total time