#### Exercises

Get together in groups of three (max four) and prepare this small project as a conversation starter for the small oral exam on Wednesday 16th in the time frame from 16:00 - 20:00. Note, this will only be a conversation starter and does not exhaustively cover all possible questions during the exam.

#### 0 Nahuelbuta weather station

The data file contains data from a weather station in Nahuelbuta.

- $\bullet$  Read in the CSV file "data0\_no\_time.csv". (use np.loadtxt() and delimiter=","))
- Write a function that filters out the negative values (-9999.0) from the data.
- Plot the first (air temperature in deg C) and second column (solar radiation  $\frac{Watt}{m^2}$ ) in two separate plots.
- The time information is missing, try to figure out from what time period the data is.

#### 1 Smoothing data

Load data from text, apply smoothing to the data (sliding window)

#### 2 Min, Max, Mean

- Read in data from the user as input from the command line. If the user types "x" stop reading.
- Write a function that calculates the min, max and mean values from that input. The function should return a tuple (a, b, c) containing the three values
- Print the values at the end

TODO

3 TODO 4

TODO

4 TODO 5

TODO

5 TODO 6

6 TODO 7

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7 TODO 8

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8 TODO 9

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9 TODO 10

TODO

10 TODO 11