

MEIC 2018/19 Ciência de Dados

Lab 1: Data Exploration

1. Loading + Exploration – <u>algae</u>

- a. Load the data.
- b. How many instances does this dataset have?
- c. How many attributes? (Nominal, Binary and Numerical)
- d. Explore the attribute season.
 - i. What is its type?
 - ii. What is its domain?
 - iii. Explore its distribution.
- e. Explore the *pH* attribute.
 - i. What is its type?
 - ii. What is its domain and range?
 - iii. How many missing values?
 - iv. How is its distribution? Histograms, boxplots
 - v. What about outliers?
- f. Explore pH and Ammonium together.
 - i. Are they in the same scale? Discuss implications.
- g. Look for dependent variables by inspecting scatter plots.

EVALUATION:

Show histogram for attribute chlorophyll. Are you confident about its distribution?