Statistical learning

0. Introduction to Python

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Organization

- 10 hours lecture + 20 hours labs : 2 hours per lab
- 1 report per lab every two sessions
- Calendar
  1. 29/01 1pm
  2. 05/02 1pm
  3. 25/02 8am, 28/02 3pm
  4. 03/03 10am
  5. 11/03 1pm
  6. 17/03 10am
  7. 25/03 1pm
  8. 03/04 3pm
- Grade : 5 reports 50% + final project 50%
- Contact : `kevin.zagalo@inria.fr`
- Web page : `https://kevinzagalo.github.io/IMC-4302C`

Packages and frameworks

We will use :

One easy way to install :

Introduction to Python

1. Scipy lecture notes
   - Numerical calculus and data engineering in Python
   - `http://www.scipy-lectures.org`
2. At home :
   - Read *1.1. Python scientific computing ecosystem*
   - Look over the rest
3. Today, then at home
   - *1.2. The Python language* : 1.2.1 – 1.2.4
   - *1.3. NumPy : creating and manipulating numerical data*
   - *1.4. Matplotlib : plotting* : 1.4.1 and 1.4.2
   - *1.5. Scipy : high-level scientific computing* : 1.5.1 – 1.5.3, 1.5.6
   - *3.1. Statistics in Python*