# Data Hackathon 2019 King's College London Health Science D 2019 04 08

### Our goals for today

- · Learn about Data Science approaches.
- Use the time today to code together and exchange ideas and experiences.
- Using the group effort to solve computational biology orientated challenge.

• A group of experienced programmers (Anna, Joseph, Mat and Paul) will be available to help during the session.

## Coding challenges for today

The goal is: to learn about and use machine learning algorithms for classification:

- · Setup a set of common machine learning models.
- · Obtaining unbiased estimates of a model's performance.
- · Fine-tune machine learning models.
- Evaluate predictive models using different performance metrics.

## Coding challenges for today

**Dataset of interest:** Breast Cancer Wisconsin, which contains 569 samples of malignant and benign tumour cells.



Figure 1: UCI machine learning repository

Your task will be to build a model to predict whether a tumour is benign or malignant.

# **Happy Hacking!**

- General information about the Hackathon: https://khsdtc.github.io/Hackathon\_Spring2019/
- Hacking challenge is placed at: https://github.com/ KHSDTC/Hackathon\_Spring2019\_Challenge