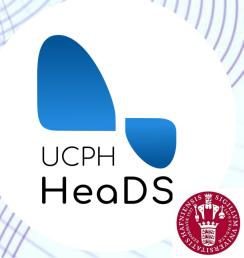


- April 21<sup>st</sup>-23<sup>rd</sup>-



### Center for Health Data Science (HeaDS)

https://heads.ku.dk

#### • The Data Science lab:

- Provides data science support for all research groups at SUND
- Organizes courses

#### Research units:

 work on different areas and topics within the field of health data science

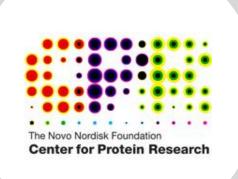


### The Team

- 1. Alberto Santos (HeaDS)
- 2. Annelaura Bach Nielsen (NNF CPR)
- 3. Davide Placido (NNF CPR)
- 4. Henry Webel (NNF CPR)
- 5. Marilena Hohmann (HeaDS)
- 6. Philip Charles (DBI (Oxford, UK))
- 7. Rita Colaço (PRI)
- 8. Roc Reguant (NNF CPR)
- 9. Thilde Terkelsen (HeaDS)









Program

Coffee and Q&A

**Teams** 

Breakout rooms

Datathon

-- Program --

	Wednesday 21st April	Thursday 22nd April	Friday 23rd Friday
8:45-9:00	Coffee and the day before (optional)		
9:00-09:45	Introduction and motivation	Conditions	Visualization I
9:45-10:00	Coffee break		
10:00-11:00	Installation and tools	Loops	Visualization II
11:00-12:00		Functions	
			Introduction Datathon
12:00-13:00	Lunch break		
13:00-14:00	Variables and data types	Libraries	Datathon
14:00-14:45	Numbers and operators	Scientific python	Datatiioii
14:45-15:15	Coffee break		
15:15-16:00	Data structures	Pandas	Datathon
16:00-17:00			Presentations
17:00-17:30	Q&A		What else is there?

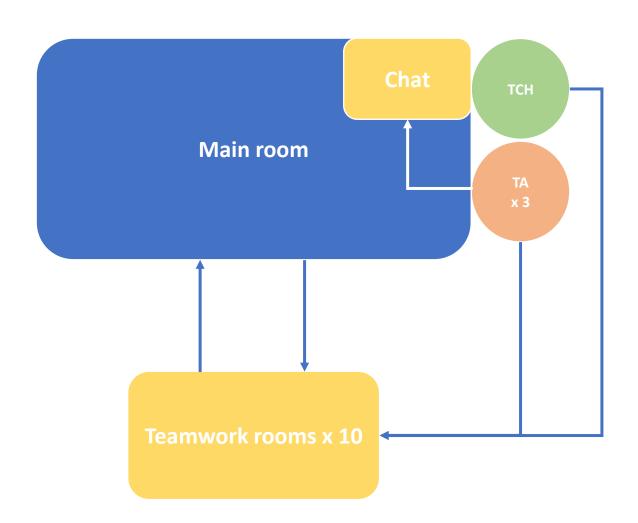
-- Teams --

49 participants divided into 10 fixed teams

#### 2 working modes:

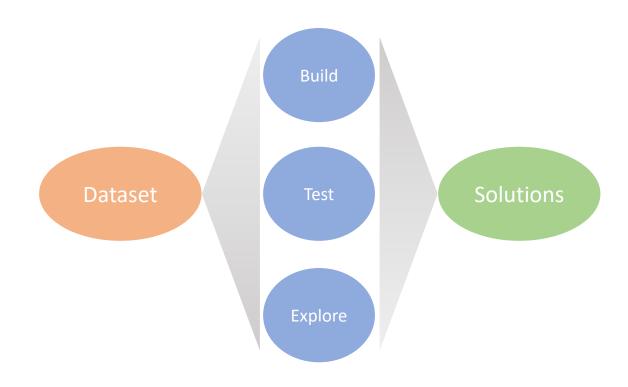
- Individual: exercises
- **Teamwork:** discussions, practice and the Datathon

-- Breakout Rooms --



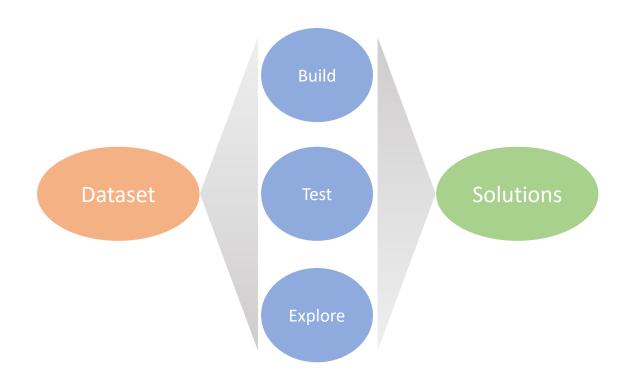
-- Datathon --

A Datathon is a data-focused competition — given a dataset and a limited amount of time, participants are challenged to use their creativity and data science skills to:



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# What will you learn in this course?

Tools to work with Python

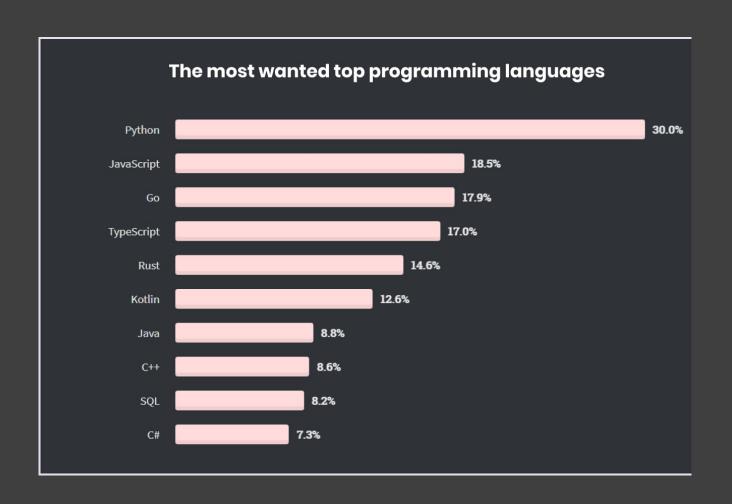
The basics of Python

Some of the most relevant scientific libraries

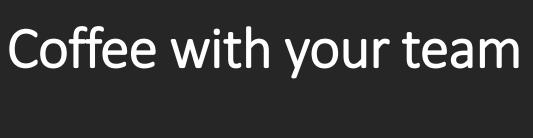
Visualization

Good practice

### Why Python?



- Python is easy to use, powerful, and versatile
- A great choice for beginners and experts alike
- Python's readability makes it a great first programming language
- It has a huge community behind developing useful libraries in many different fields (i.e biology, imaging, etc.)



- Introduce yourself and what you do
- Explain your **motivation** to take the course
- Discuss what data could be relevant for you

