

# Exercises

# Me

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  - Research interest: Deep learning
- Running the exercises
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# Exercise structure

- Mainly template exercises
  - Uploaded the day before or on the day of the lecture
- Solution proposals
  - Uploaded the week after the lecture
  - If you find any errors or a better solution, please send it to me

# Programming language

- Python (3.x)
- Project structure
  - On itslearning
  - requirements.txt
    - Python packages
    - It might be updated during the course
    - pip install -r requirements.txt
  - lib
    - Scripts used for plotting, .....
    - It might be updated during the course
- I recommend
  - PyCharm IDE
    - [Pro version](#) is free for students
      - You will only need the [community version](#)
  - OS
    - Ubuntu (or other Linux distribution)
    - But windows will work for the most of the exercises

# 01 - Optimization

Exercises

# Optimization

- In this exercise, you will use non-linear least square optimization to find geometrically optimal 3D points from noisy image coordinates.
- This exercise does not use any external data