



UNIVERSITÀ DI PARMA

# LABORATORY #1a

- Create the following function:

```
void myfilter2D(  
    const cv::Mat& src,  
    const cv::Mat& krn,  
    cv::Mat& out,  
    int stride=1  
);
```

- Src → single channel uint8
- Krn → single channel float32, odd size
- Out → single channel int32 (signed!)
- Stride → integer, default to 1

- Constraints:
  - The use of `at<T>` is not allowed
- Hints:
  - Displaying 32S or 32F images can be tricky, look at the provided code
- Tests
  - Using the provided code and images, compare the results wrt the OpenCV functions `cv::Sobel` and `cv::Filter2D`