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## Research interests:

- Digital Image Processing
- Digital signal processing
- Computer vision

## Additional research interests:

- Computational Economics
- Robotics

## Graduation project: HDR image processing

- High-dynamic-range imaging (HDRI) is a high dynamic range (HDR) technique used in imaging and photography to reproduce a greater dynamic range of luminosity than is possible with standard digital imaging or photographic techniques. The aim is to present a similar range of luminance to that experienced through the human visual system.
- This is often achieved by capturing and then combining several different narrower range exposures of the same subject matter.
- In practice, cameras are not perfectly linear light measurement devices, objects frequently do not remain still between individual exposures, and the camera is rarely kept still. Thus, in practice this procedure needs to be refined to include camera response curves, image alignment techniques, and ghost and lens flare removal.
- The aim of that thesis is to do the image registration to the different images. Image registration involves spatially registering the target image(s) to align with a special image, called reference image.
- The first image, on the right, shows a combination of two images that are not registered, whereas the other one shows a combination of two registered images.

