

# **Computer Vision MS: project proposal**

February 2022

## **Title**

Automatic detection of fiber-cement roofs in aerial images

## **Abstract**

Some types of fiber-cement roofs can contain highly toxic materials. Although these types of roofs are currently banned, there are still many roofs that contain these toxic materials. Unfortunately, the location of these types of roofs is often unknown. While there is a strong interest in detecting the areas where these roofs are located in order to remove them, the location of these fiber-cement roofs needs to be done manually, making the process slow and expensive. This motivates the interest in developing automatic systems that can detect these types of fiber-cement roofs automatically. In this project we will work on the development of computer vision systems, based on deep learning, for the automatic detection of fiber-cement roofs in aerial images.

## **Academic Supervisor**

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