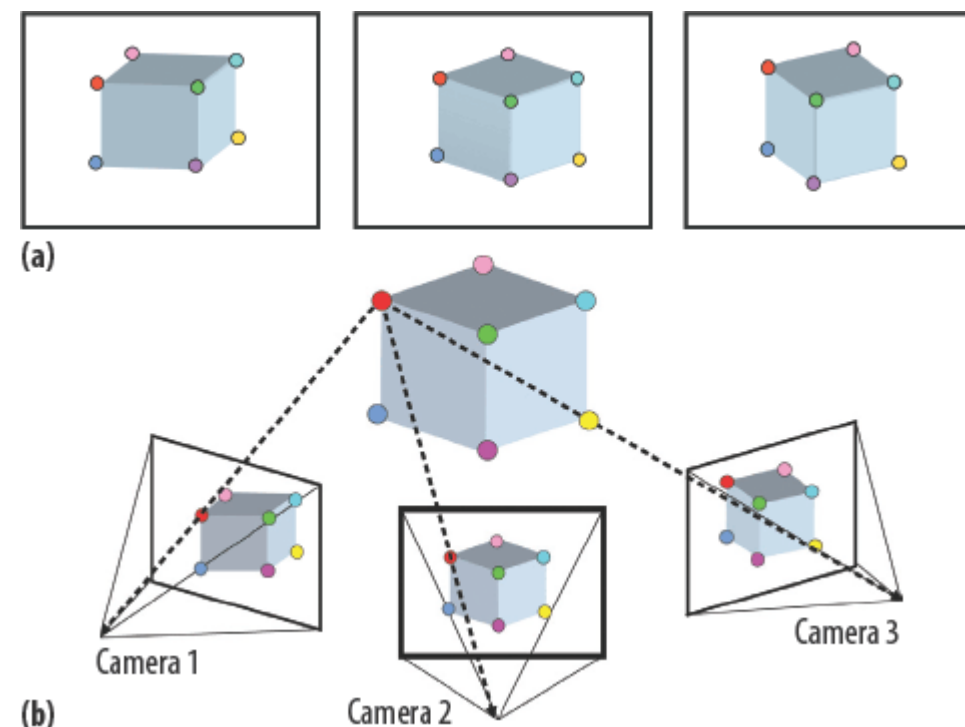


# Simulating Structure from Motion

**Goal:** Build a synthetic SfM generator in MATLAB.

## Description:

Many applications, such as localization, rely on using a Structure from Motion (SfM) dataset as an input. The characteristics of the SfM used affect how the algorithms build to work on them behave. Currently, only real-data SfM reconstructions are a valid way of validating such applications, however such data is limited and expensive to reproduce. In this project, you will implement a MATLAB simulator that can build a faithful SfM reconstruction.



## Requirements / Tools:

Required: MATLAB

## Supervisor:

Federico Camposeco  
fede@inf.ethz.ch