Idea

Where am I?
Solution:

**FAB-MAP**

Fast Appearance Based Mapping

appearance-only SLAM

recognizes previously seen locations

solves the loop closure problem

robust in visually repetitive environments

large scale localization
How fab-mapping works

does not compute image similarity but image distinctiveness
Tasks

- understand Fab-Map by reading relevant papers
- investigate ROS-OpenFabMap2 package

1. training phase
   - collect training data for multiple locations
2. flying phase
   - recognize room and make special move
Future Work

master thesis: appearance-based navigation