



BA/MA/SA/Group/Lab:

## Smartphone Audio Processing

In our everyday lives we spend many hours listening or talking to other people. Discussions fuel our creativity or might influence our point of view of important topics yet we know very little about the interaction mechanics of these conversations. We are interested in measuring and analyzing such interactions using off the shelf smartphones.

Modern smartphones are equipped with a variety of sensors that could potentially help solving such tasks. Be it a smart voice recorder for interviews or an app that might help couples counseling, there is a large number of novel applications that we could think of in this context. These methods could also help us better understand the social dynamics in our everyday lives or maybe even help us better understand our peers in a noisy environment. We think that the potential for novel and helpful applications in this area is very high. We have a few ideas that are waiting to be put into practice but should you have your own, please feel free to propose it. Depending on your interests, we can tailor the project to focus on algorithms, machine learning, signal processing, or mainly software development.



**Requirements:** Good programming skills and creativity are advantageous. The student should be able to work independently on this topic.

**Interested? Please contact us for more details!**

### Contacts

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