

Proseminar / Seminar

Teaching iOS

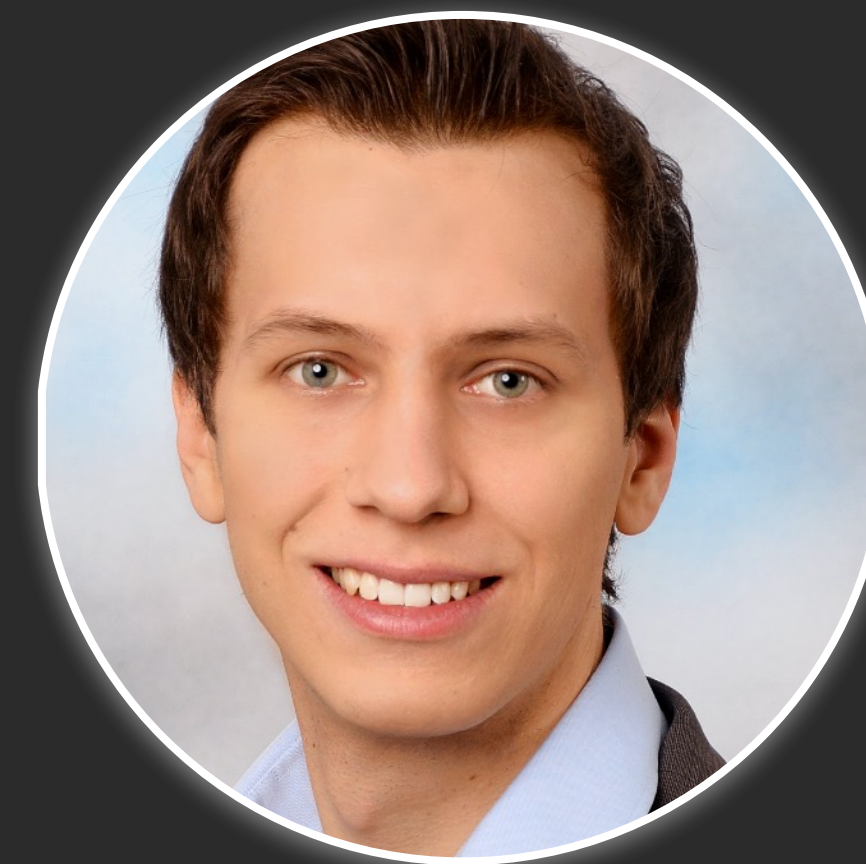
Winter Semester 2019/20 - Info Meeting



Paul Schmiedmayer



Dora Dzvonyar



Dominic Henze

Goals



- Participate as tutor in the introduction courses for the iPraktikum (large-scale practical course)
- Learn how to teach Swift and concepts of advanced Software Engineering to students with varying knowledge
- Deepen your knowledge in iOS development
- Have fun 🥳

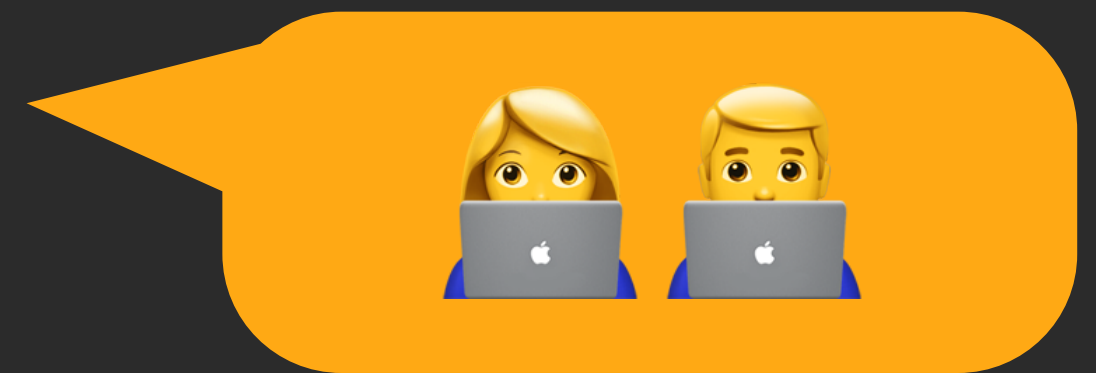


The Intro Course



Course Schedule

- Course duration: **October 07-16** (Homework due **October 16**)
- We hold different kinds of sessions
 - Instructors: 8 sessions about Swift, Xcode and iOS development
 - **Tutors: 3 sessions about advanced topics**
- We keep the Rechnerhalle open 9:00-20:00 for people to complete their exercises
- Learn more about the course [here!](#)



Schedule

(Preliminary)

October 2019

	Tue 8	Wed 9	Thu 10	Fri 11	Sat 12	Sun 13	Mon 14	Tue 15	Wed 16
9 AM		8:30 AM Lab Time	8:30 AM Lab Time	8:30 AM Lab Time			8:30 AM Lab Time	8:30 AM Lab Time	9:00 AM Lab Time
10 AM	9:00 AM Getting Ready 10:00 AM Introduction	9:30 AM Swift 2	9:30 AM Swift 3	9:30 AM Swift 4	10:00 PM Lab Time		9:30 AM Tutor Session 1	9:30 AM Tutor Session 3	
11 AM									
Noon	11:30 AM Mac 101								
1 PM	12:30 PM Swift 1	12:30 PM App 2	12:30 PM App 3	12:30 PM App 4			12:30 PM Tutor Session 2	12:30 PM What Now?	
2 PM								1:30 PM Lab Time	
3 PM	3:00 PM App 1	2:30 PM Lab Time	2:30 PM Lab Time	2:30 PM Lab Time			2:30 PM Lab Time		
4 PM									
5 PM	5:00 PM Lab Time								
6 PM									
7 PM									

Our Philosophy

*“Tell me and I will forget.
Show me and I will remember.
Involve me and I will understand.
Step back and I will act.”*

(Chinese Proverb)

Style of the sessions

90 min hands-on presentation

- Students immediately exercise the learned concepts in small in-session exercises (instructor walks them through the code)
- A solution is provided

Homework

- Summarizes the content of the whole presentation
- The students have to solve it on their own
- You correct the exercise solutions and give feedback to the students

What we expect during the course

- **You help run the intro course**
 - You attend all the sessions
 - You support the participants by answering their questions
 - You correct the exercise solutions of a group of “your” students
 - You take turns being present during lab times (9:00-20:00, excl. Sunday)



What we expect during the course

- **Your deliver your own session**
 - Your prepare an own extraordinary presentation & exercise
 - You present the topic in front of all students



Sessions

Instructor topics

- 4 Swift sessions
- 4 App sessions
 - Xcode app
 - Server-side Swift
- "What now?"

We teach the concepts needed in the following App session

Everyone works on the same application throughout the whole course

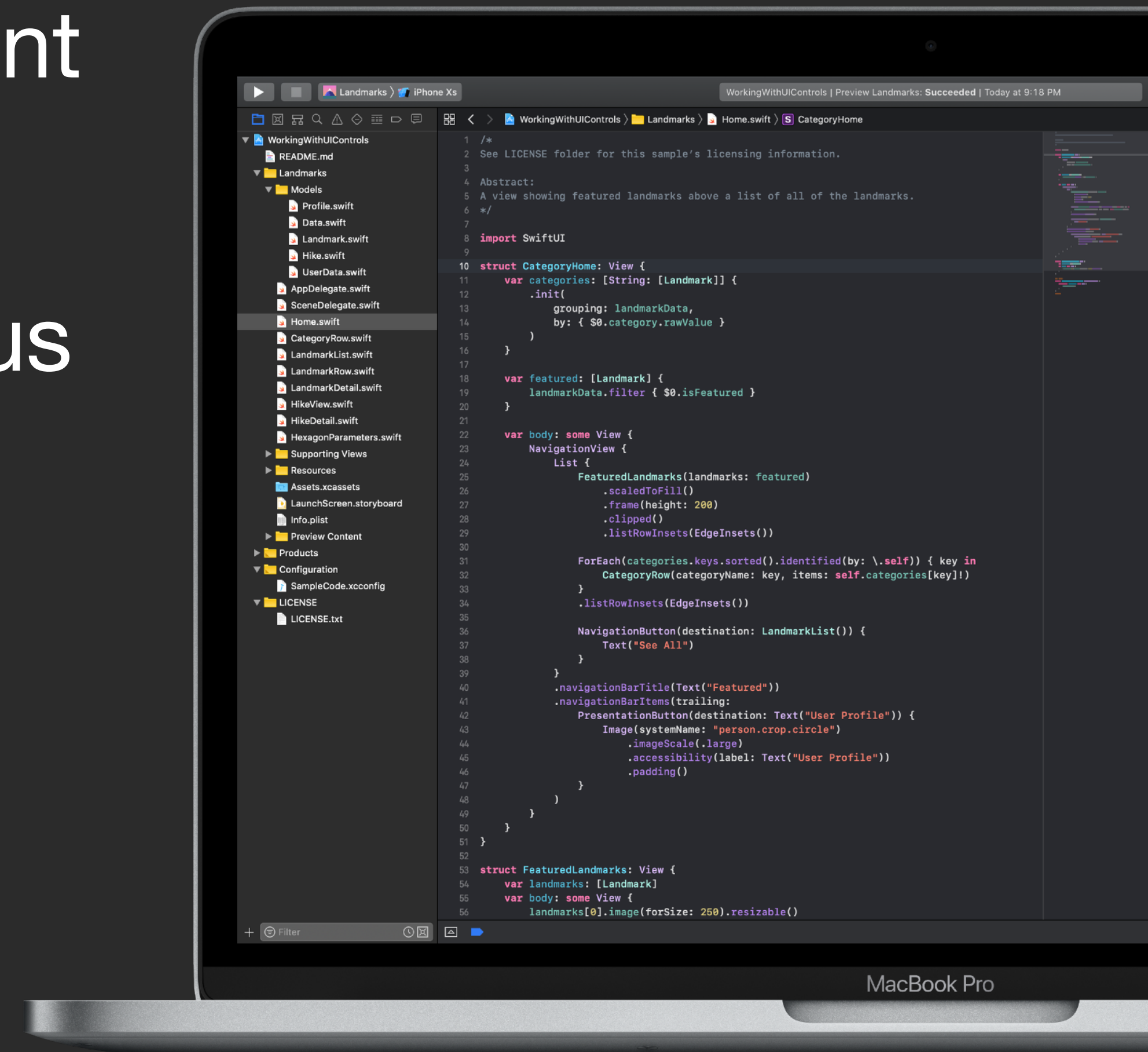
Possible topics for tutors

- UI Design
- Paradigms in Swift
- ... (your ideas)

You either work on the same app, or you design a Playground session

Prerequisites

- You are familiar with the concept of object-oriented languages
- You have experience in iOS development
 - Good knowledge in Swift
 - Experience with Objective-C is a plus
- You are highly motivated to take this course — no other obligations and flexibility during the full duration of the intro course (except repeat exams/obligatory university courses)



Milestones



- **August 8, 1:00 - 3:00pm: Kickoff**
- **Mid August: Structure of your Presentation**
- **Mid Sepember: Presentation & Exercise**
- **September 30: Dry Run & Feedback**
- **October 07: Final Slides & Exercise**

How we grade



- Presentation (40%)
- Support (30%)
- Exercise correction (30%)

Registration process

1

Express your intention by filling out the form at <https://www1.in.tum.de/teachingios1920>

Latest: **July 19 - 2:00pm**

2

We invite you to a personal interview latest one day after

Interviews: **July 23 (9:00-18:00)**

3

After we have accepted you, prioritize the Seminar/Proseminar “Teaching iOS” in the department’s matching system

Latest: **July 24**

Questions?

ios@in.tum.de