

# Dr. Sarah Prange

creative UX researcher  
innovative digital solutions & emerging technologies

## Practical Experience

- 06/19-09/23 UX Researcher (FI CODE, University of the Bundeswehr Munich)**
  - **research** in the field of usable security & privacy, focus: in smart homes
  - further areas: tangible interaction, interactive museum exhibits
  - design & implementation of **prototypes**
  - design & conduction of **lab & field studies**
  - **analysis** of qualitative & quantitative data (Python)
  - leading 10+ scientific publications
  - collaborated (internationally) in 7+ published projects
  - **teaching**: organising & holding **courses**
  - **mentoring** for individual students (theses) & teams
- 10-12/2018 Research Internship (Lancaster University, UK)**
  - development of a web app for the campus-wide public display network (web, Python/Django)
- 12/17-05/19 UX Researcher (Hochschule München)**
  - **research** in the field of biometric authentication
  - design & implementation of **prototypes**
  - design & conduction of **lab & field studies**
  - leading 4 scientific publications
  - **teaching**: organising practical **courses**
  - **mentoring** for individual students (theses) & teams
- 10-12/2017 Tutor (LMU Munich)**
  - Tutor for game development (Python, C++/Cocos 2d-x)
- 04-07/2017**
- 04-07/2016**

## Academic Career

- 12/2022 Promotion (Media Informatics Group, LMU Munich)**
  - final grade **magna cum laude**
  - Dissertation „Usable Privacy and Security in Smart Homes“
- 12/2017 M.Sc. Media Informatics (Media Informatics Group, LMU Munich)**
  - final grade **1.48** (minor in **media design**)
  - **"Quake Quiz"**: development of an interactive quiz/exhibit at Museum Mensch & Natur (NodeJS backend)
  - **Android**: development of a prototype for a novel authentication mechanism on Android (with Google Munich)
  - first contact with **lab studies**
  - holding **tutorials** for younger students
- 09/2015 B.Sc. Media Informatics (Media Informatics Group, LMU Munich)**
  - final grade **1.45** (minor in **media design**)

## Summary

**UX Research**  
user-centred design • usability studies • interviews • focus groups • surveys • lab studies • field studies • data analysis (Python)

**Technology & Concepts**  
Android • web • smart home • AR/VR • prototyping • Figma

**(international) Collaborations**

**Teaching & Mentoring**



## Languages

German 




English 



French 

## Development


Python    

Web, Data Analysis


HTML/CSS    


JavaScript    

Node.js, Gatsby, React

PHP  

CakePHP

Java   

Android   

C#  

.NET, XAML

C++  

Cocos 2d-x

Haskell 

## Tools

Adobe Creative Suite • Affinity Suite • Miro • Mural • Figma • SoSci Survey • SurveyMonkey • Trello • Notion • Slack • MS Office • Wordpress

## Other Activities

- 2019-2022** **German HCI Community**  
initially implementing the website (Wordpress), then part of the steering committee  
[www.germanhci.de](http://www.germanhci.de)
- 2019** **Organising Committee of the MuC Conference**  
assistant to paper chairs, co-proceedings chair  
MuC: largest conference in Human-Computer-Interaction in Europe
- 02-04/2017** **Internship at Hubert Burda Media**  
developing prototypes for the final projects of journalist trainees in Wordpress
- 05-09/2015** **Bachelor thesis at the uxcite GmbH**  
title: „Evaluation of Eye Tracking for Online Usability Tests“
- 2014-2015** **Student Trainee (uxcite GmbH)**  
development of a software for online usability tests (Windows/C#, .NET; Web Backend/Cake PHP)
- 2013-2014** **Student Trainee (HYVE Innovation Design GmbH)**  
implementing the new website in Wordpress

## Teaching

- 2018-2022** **Theses (Bachelor, Master)**  
supervision, LMU
- SoSe 2023** **Practical Course „Usable Security“**
- SoSe 2022** teaching & organisation, UniBW & LMU  
focus: tangibles (2022), werables (2023)
- SoSe 2021** **Practical Course „Usable Security“**
- SoSe 2020** online (no presence teaching), UniBW & LMU  
focus: VR (2020), AR (2021)
- WS 18/19** **Seminar „Research Methods in Usable Security“**  
supervision of seminar papers, HM
- SoSe 2018** **Practical Course „Usable Security“**
- WS 17/18** teaching & organisation, HM & LMU

## Conferences & Scientific Activities

- German HCI Community**  
website **2019-2022**  
lead **2022**
- Organising Committee**  
ACM International Symposium on Pervasive Displays:  
Web Chair **2019**  
Proceedings Co-Chair **2020**
- Mensch und Computer:  
Assistant to Paper Chairs **2019**  
Proceedings Co-Chair **2019**
- Program Committee**  
Mensch und Computer **2019, 2020, 2021**
- Student Volunteer**  
ACM CHI Conference on Human Factors in Computing Systems: **2018, 2019, 2021, 2022**  
International Conference on Mobile and Ubiquitous Multimedia **2018**  
ACM International Symposium on Pervasive Displays **2018**
- External Reviewer**  
CHI papers **2019, 2020, 2021, 2022, 2024** & LBW **2019, 2020, 2021**  
IMWUT **2020, 2021**  
TOCHI **2021, 2022, 2023**  
MobileHCI papers **2018, 2019, 2020**  
NordiCHI papers **2018, 2020** & posters **2020**  
INTERACT full papers **2021**  
UIST papers **2021**  
Mensch und Computer **2019, 2020, 2021**

## Creative & More

dance • DIY • watercolors • Bullet Journal • photography • travels • gravel bike • family & friends

## Publications (Selection)

**Sarah Prange**, Pascal Knierim, Gabriel Knoll, Felix Dietz, Alexander De Luca, Florian Alt.  
“I do (not) need that Feature!” – Understanding Users’ Awareness and Control of Privacy Permissions on Android Smartphones. In *Twentieth Symposium on Usable Privacy and Security*, SOUPS 2024.

**Sarah Prange**, Ahmed Shams, Robin Piening, Yomna Abdelrahman, Florian Alt.  
PriView - Exploring Visualisations to Support Users’ Privacy Awareness. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*. **Talk:** <https://youtu.be/vrWA04ytmeA?feature=shared>

Karola Marky and **Sarah Prange**, Max Mühlhäuser, Florian Alt.  
Roles Matter! Understanding Differences in the Privacy Mental Models of Smart Home Visitors and Residents. In *Proceedings of the 20th International Conference on Mobile and Ubiquitous Multimedia*, MUM '21.  
**Honourable Mention Award** 🏆