# SANAM GHORBANI LYASTANI

*"I am a UX/Usable security researcher and Ph.D. candidate at the CISPA Helmholtz Center for Information Security with 6+ years experience. My research focuses on improving the usability of user authentication through innovative human- and data-centered study designs. In my work, I employed a vast array of qualitative and quantitative research methods for HCI, including surveys, lab studies, participatory design, cognitive walkthrough, think aloud, interviews, and mixed methods."*

📞 +49 179 2519324

✉ lyastani.sanam@gmail.com

🌐 https://sanamlyastani.github.io/

## CERTIFICATES (Coursera)

Introduction to user experience principles and proIntroduction to user experience principles and processes (University of Michigan)

Foundations of user experience (UX) design (Google)

Data Analysis with R Programming (Google)

## SKILLS

Grounded theory, Human-centered usability studies and testing, UX research, Qualitative and quantitative research methods, Data analysis.

## COMPUTER SKILLS

Programming:  C++, R
Misc:              Latex

## LANGUAGES

Farsi          ● ● ● ● ● ●
English      ● ● ● ● ○
German     ● ● ○ ○ ○

## 🎓 Education

| Since 09/2016 | **Ph.D. candidate at CISPA Helmholtz Center for Information Secrurity,** Department of Computer Science, Saarland University, Saarbrücken, Germany (Graduation expected 09/2023) |
|---|---|
| 04/2015 – 09/2016 | **Preparatory phase for graduate school,** Department of Computer Science, Saarland University, Saarbrücken, Germany |
| 05/2014 – 07/2014 | **Internship student** at Center for Information Security, Privacy and Accountability (CISPA), Saarbrücken, Germany |
| 02/2012 – 09/2013 | **Master of Computer Science (Information Security)**, UTM University, Kuala Lumpur, Malaysia |
| 11/2006 – 10/2010 | **Bachelor of Information Technology (Information System Engineering)**, MMU University, Cyberjaya, Malaysia |

## 🔍 Research Projects

| *Studying the Impact of Managers on Password Strength and Reuse* | Designed and conducted the **first large-scale online study** with 476 participants about password managers' influence on users' real-life passwords using a **novel browser-plugin** to monitor user behavior and conduct in-situ surveys.<br><br>Used a combination of both quantitative and qualitative approaches (regression models). |
|---|---|
| *Comparative Usability Study of Passwordless Authentication* | Designed and conducted the **first lab study of FIDO2 passwordless authentication** to collect insights about end-users' perception, acceptance, and concerns about this technology.<br><br>Lab study with 94 participants using **explainer videos and mock-up websites** for hand-on tasks.<br><br>Used a combination of both quantitative and qualitative approaches (open/axial coding, regression models). |
| *Systematic Study of the Consistency of Two-Factor Authentication User Journeys* | Conducted the first systematic study of the external, functional **consistency of two-factor authentication user journeys** on 84 top-ranked websites.<br><br>Used inductive research methods to find comparison factors: open and axial coding from grounded theory on screen-recorded user journeys. |