

Dr. Sebastian S. Feger

UX DESIGNER · HUMAN-COMPUTER INTERACTION RESEARCHER · PHD GRADUATE · SOFTWARE ENGINEER

Born June 16, 1989 in 77855 Achern (Germany)

✉ sebastian.feger@gmail.com | 🏠 sebastian-feger.com | 🌐 sebastian-s-feger

Experience

Ludwig Maximilian University of Munich · Munich, Germany Since November 2020
POSTDOCTORAL RESEARCHER (HCI / UX)

Involved in teaching several classes, including Sketching with Hardware, Design of Media Systems, and Web Programming. I further supervise currently 12 students with individual projects.

Consultancy · **Sebastian Feger IT/UX Consulting** Since September 2020
Advisory activities regarding the design and user experience of software applications.

ICARDA Consulting the International Center for Agricultural Research in the Dry Areas (ICARDA).

CERN, European Organization for Nuclear Research · Geneva, Switzerland Feb. 2017 - Jan. 2020
UX DESIGNER · HUMAN-COMPUTER INTERACTION RESEARCHER · DOCTORAL STUDENT

- Studied practices around research sharing, reuse, and data management in data-intensive science.
- Implemented and evaluated novel motivational interaction techniques in research tools.
- Conducted user research and evaluations through interviews, focus groups, and surveys.
- Designed interactive prototypes with Balsamiq and Figma, and implemented service components in ReactJS.
- Informed CERN's strategy and vision regarding open science and data management.
- Published and presented research findings at leading international conferences in Human-Computer Interaction.

Techno et Control · Karlsruhe, Germany Oct. 2015 - Dec. 2016
TECHNICAL PROJECT MANAGER · UX DESIGNER · LEAD DEVELOPER

- Mapped and explored boundaries of mobile Bluetooth Low Energy (BLE) applications for private networks.
- Responsible for the technical project management and the implementation of the Android and iOS emergency app SoftAngel that is based on BLE data exchange.
- Designed a major part of the app's user interface and managed user experience studies iteratively throughout the design cycle.

CERN, European Organization for Nuclear Research · Geneva, Switzerland Mar. 2013 - Feb. 2015
SOFTWARE ENGINEER · UX DESIGNER · FELLOW

- Lead engineer and architect of a software framework developed to control and test a hardware communication chip which is designed for the future upgrade of the LHC particle accelerator.
- Based the development on an iterative design process that focused on user research and requirements.
- Developed a web-based (J2EE) service that allowed clients to customize the communication chip.
- Published novel contributions of the software framework in a scientific journal.
- Represented the organization at several job fairs.

SAP Research Switzerland · Zurich, Switzerland Oct. 2011 - Jan. 2012
SOFTWARE ENGINEER · DIPLOMA STUDENT

- Supported SAP's activities in the EU research project *FP7 Drive C2X* on the future of electric vehicles, both in software engineering and project administration.
- Elaborated and implemented SAP-based middleware platforms for Vehicle-to-Business communication.
- Responsible for the technical coordination with project partners.

SOFTWARE ENGINEER · TECHNICAL STUDENT

- Analysed user requirements for software designed to control and test a custom-tailored hardware chip (ASIC).
- Implemented the control software (Java).
- Implemented the firmware required for the communication with the ASIC (VHDL, IP/TCP protocols).

Education

Ludwig Maximilian University of Munich · Munich, Germany

Oct. 2018 - Sep. 2020

DOCTORAL STUDIES · HUMAN-COMPUTER INTERACTION

Doctoral advisor: Prof. Dr. Albrecht Schmidt

Title of the dissertation: Interactive Tools for Reproducible Science (Submitted on March 12, 2020)

Successfully defended the thesis on July 17, 2020 (magna cum laude)

University of Stuttgart · Stuttgart, Germany

Feb. 2017 - Sep. 2018

DOCTORAL STUDIES · HUMAN-COMPUTER INTERACTION

Doctoral advisor: Prof. Dr. Albrecht Schmidt

Karlsruhe University of Applied Sciences · Karlsruhe, Germany

Mar. 2012 - Feb. 2013

MASTER STUDIES · COMPUTER SCIENCE

Degree awarded: Master of Science, M.Sc. (1.2, very good, passed with distinction)

Karlsruhe University of Applied Sciences · Karlsruhe, Germany

Sep. 2008 - Feb. 2012

BACHELOR STUDIES · COMPUTER SCIENCE

Gave an official tutorial on programming and paradigms for three consecutive terms.

Degree awarded: Bachelor of Science, B.Sc. (1.2, very good, passed with distinction)

Language Skills

German Mother tongue**English** Fluent in writing, understanding, and speaking. Spent six years in English-speaking work environments.**Italian** Fluent speaker, very good in writing and reading. Skills obtained by self-study and through language courses at the University of Palermo and the University of Karlsruhe.**French** Proficient in writing, understanding, and speaking. Studied French for three years in high school and lived for more than five years in France, working in a French/English environment.

Funding

Wolfgang Gentner Scholarship

Feb. 2017 - Jan. 2020

GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH (BMBF)

Received the Wolfgang Gentner Scholarship financing doctoral research at CERN (grant no. 05E15CHA).

Deutschlandstipendium

Nov. 2012 - Feb. 2013

GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH (BMBF) & INDUSTRY SPONSOR

Received a scholarship during the last semester of the Master studies.

Scientific Publications

 0000-0002-0287-0945 |  Sebastian Stefan Feger: 269 citations, h-index 8, i10-index 8 (November 18, 2020)

Archival publications report on contributions from research in computer science (Human-Computer Interaction /

UX Design), usable security (IoT), data management, and computer engineering. The following are selected publications published at leading HCI venues:

CSCW 2020

'Yes, I comply!': Motivations and Practices around Research Data Management and Reuse across Scientific Fields

IMWUT / Ubicomp 2020

SAFER: Development and Evaluation of an IoT Device Risk Assessment Framework in a Multinational Organization

CHI 2019

Designing for Reproducibility: A Qualitative Study of Challenges and Opportunities in High Energy Physics

CHI 2019

Gamification in Science: A Study of Requirements in the Context of Reproducible Research

CHI 2019

The Role of HCI in Reproducible Science: Understanding, Supporting and Motivating Core Practices

Additional Competences and Extracurricular Activity _____

Agile Software Engineer Student Edition · Karlsruhe, Germany

March 2012

CERTIFIED PARTICIPATION (ANDRENA OBJECTS AG)

Participated in an industrial training on Agile Software Engineering and Scrum.

ITIL 3 Certification · Karlsruhe, Germany

June 2012

FOUNDATION EXAMINATION

Certified knowledge of the IT Service Management framework ITIL (IT Infrastructure Library Version 3).