

Sebastian S. Feger

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

Born June 16, 1989 in 77855 Achern (Germany)

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Experience

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.

CERN, European Organization for Nuclear Research · Geneva, Switzerland Mar. 2010 - Oct. 2010

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 - Present

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)

University of Stuttgart · Stuttgart, Germany
DOCTORAL STUDIES · HUMAN-COMPUTER INTERACTION
Doctoral advisor: Prof. Dr. Albrecht Schmidt

Feb. 2017 - Sep. 2018

Karlsruhe University of Applied Sciences · Karlsruhe, Germany
MASTER STUDIES · COMPUTER SCIENCE

Mar. 2012 - Feb. 2013

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

Karlsruhe University of Applied Sciences · Karlsruhe, Germany
BACHELOR STUDIES · COMPUTER SCIENCE

Sep. 2008 - Feb. 2012

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: 205 citations, h-index 8, i10-index 8 (April 20, 2020)

Archival publications report on contributions from research in computer science (Human-Computer Interaction) and electronics. The following are selected first-author publications from my PhD research:

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).