

# Sebastian S. Feger

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

Born June 16, 1989 in 77855 Achern (Germany)

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## Experience

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### 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.

### 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

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**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

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**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

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**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

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 0000-0002-0287-0945 |  Sebastian Stefan Feger: 239 citations, h-index 8, i10-index 7 (September 2020)

Archival publications report on contributions from research in computer science (Human-Computer Interaction / UX Design), data management, and computer engineering. 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

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**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).