

# Martin Schüßler

HCI Researcher in Explainable Artificial Intelligence

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Berlin, Germany



## PROFESSIONAL EXPERIENCE

### Phd Candidate | Research Assistant

#### Criticality of AI Research Group, Weizenbaum Institute

01/2018 - Ongoing TU Berlin, Berlin, Germany

<https://vernetzung-und-gesellschaft.de>

As part of a newly formed interdisciplinary research group, my research focuses on explainable artificial intelligence (XAI).

### Java Programmer

#### Osyon GmbH

04/2017 - 01/2018 Berlin, Germany

Java Software development for a Europewide operating laboratory group

### Student Assistant Researcher

#### HPI - Stanford Design Thinking Research Program

10/2015 - 09/2016 HPI, Potsdam, Germany

<https://hpi.de/en/dtrp/program/overview.html>

I was part of the Visual Diagnostics Team which is working on developing and evaluating diagnostic instruments for design team interaction.

- Advised the team on evaluation methods and statistical analysis with R
- Facilitated data acquisition and data cleaning by developing and maintaining a data management system

### Student Assistant Researcher

#### Mobile and Physical Interaction Group, Q&U Lab

04/2014 - 03/2016 TU Berlin, Berlin, Germany

[http://qu.tu-berlin.de/menue/forschung/gruppen/mobile\\_physical\\_interaction/](http://qu.tu-berlin.de/menue/forschung/gruppen/mobile_physical_interaction/)

Under the lead of Prof. Jörg Müller our group contributed to CHI, UIST, UBICOMP and CSCW.

- Implemented an advanced peephole display on several iOS devices
- Designed and conducted 4 small scale studies on peephole displays
- Conducted experiments and contributed to UbiComp '15 full paper
- Taught 20-40 undergrad students how to code in C
- Edited supplementary videos for three paper submissions

## EDUCATION

### M. Sc. Computer Science

#### TU Berlin

04/2013 - 11/2016 Berlin, Germany

- Grade: 1.3
- Major in HCI (communication based systems) - courses incl.: usability engineering, multimodal interaction, augmented reality
- Minor in empirical social science - courses incl.: survey methodology, ethnography, bi- and univariate statistics
- Thesis: Spatial Input for 2D Peephole Navigation on Mobile Devices

### B. Sc. Business Informatics

#### Otto-von-Guericke University

10/2008 - 04/2013 Magdeburg, Germany

- Major in computer science and Minor in economics
- Bachelor thesis published as CHI 2014 paper

### Study Abroad Program

#### University of Sydney

07/2010 - 12/2010 Sydney, Australia

## CERTIFICATES

### Certificate in Advanced English (C1)

### Design Thinking Basic Track

### GDPR Specialist (ISQI)

# PROFESSIONAL EXPERIENCE

## Research and Development Assistant

### Telekom Innovation Laboratories

📅 01/2013 - 03/2014 📍 T-Labs, Berlin, Germany

🔗 <http://www.laboratories.telekom.com/public/Deutsch/Innovation/Pages/Cross-Domain-Middleware.aspx>

T-Labs innovates in close cooperation with science and industry. Supervised by Mehran Roshandel and Dr. Hamed Ketabdar I enhanced a real time monitoring and outlier detection system (called ADIT).

- Developed and evaluated a new spectral analysis algorithm in Matlab
- Implemented the algorithm in Java as a component for ADIT
- Conducted extensive testing and parameter optimisation

## Graduate Assistant

### Department of Simulation and Graphics

📅 06/2010 - 06/2012 📍 Otto-von-Guericke University, Magdeburg, Germany

Working on "Sugar" (One Laptop per Child Human Interface)

## IT-Consultant

### Self employed

📅 04/2009 - 06/2013 📍 Magdeburg, Germany

Setup and maintenance of e-commerce, content management and database management systems (7 projects)

# SKILLS

### Programming (Java /Obj-C)



### Qualitative research



### Empirical research (incl. R)



### User studies



### Literature research



### Presentations



# PASSIONS

🚐 VW T3 Camper Van

🔧 DIY Projects

# STRENGTHS



## Analytical & Inquisitive

Four years in research taught me to approach problems methodologically.



## Teaching

Passionate about facilitating the exchange of knowledge, I acquired the ability to explain complex things in simple words.



## Interpersonal Communication

I am an extrovert, who mediates between jargons in multi-disciplinary teams.



## Self-organized

Working remotely and self-employed taught me to proactively organise my work needing little supervision.

# REFERENCES

## Prof. Jörg Müller

joerg.mueller@acm.org

## Dr. Hamed Ketabdar

hamed.ketabdar@clickandbuy.com

## Dr. Claudia Nicolai

claudia.nicolai@hpi.uni-potsdam.de

# PUBLICATIONS

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## Analyzing Visual Attention During Whole Body Interaction with Public Displays

**UbiComp '15**

*R. Walter, A. Bulling, D. Lindlbauer, M. Schuessler, J. Müller*

📅 09/2015 🔗 <http://mschuessler.de/pub/Ubicomp15.pdf>

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## Pinch-drag-flick vs. spatial input: rethinking zoom & pan on mobile displays

**CHI '14**

*M. Spindler, M. Schuessler, M. Martsch, R. Dachsel*

📅 04/2014 🔗 <http://mschuessler.de/pub/CHI14.pdf>

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## Method and system for the evaluation of recorded measured values of a system

**Patent EPA AZ: 13186464.7**

*B. Löhlein, M. Roshandel, H. Ketabdar, M. Schüßler, S. Tajik*

📅 04/2015 🔗 <http://google.de/patents/EP2854045A1>

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## Combining computational and human analysis to study coherence in design conversations

**DTRS '16**

*A. Menning, B. Grasnick, B. Ewald, A. Scheer, F. Dobrigkeit, M. Schuessler, C. Nicolai*

📅 2016

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