

Dr.-Ing. Martin Weigel

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Expertise HCI • Mobile Computing • Software Development • Prototyping • Printed Electronics

Languages German (native) • English (fluent) • French (basic)

EDUCATION

- 2017 **Dr.-Ing.** in Computer Science, Saarland University and Max Planck Institute for Informatics
Dissertation: *Interactive On-Skin Devices for Expressive Touch-based Interactions*
- 2014 **M. Sc.** in Computer Science, Saarland University, grade 1.1 (A in US)
- 2010 **B. Sc.** in Computer Science, Darmstadt University of Technology, grade 1.4 (A in US)

WORK EXPERIENCE

- 2017–
2012–2017 **Senior Scientist**, Honda Research Institute Europe
- 2012–2017 **Doctoral Researcher**, Saarland University and Cluster of Excellence MMCI
- Innovative research in field of stretchable on-skin electronics for mobile computing
 - User-driven design, development, and evaluation of wearable technologies
 - Prototyping of interactive devices using printed electronics, laser cutting, and 3D printing
 - Software developing and prototyping in Java, C#, and Python
 - Successful publications at international top-tier venues (3 full papers, 1 journal article)
- 2013 **Visiting Researcher** (2 weeks), MIT Media Lab, Fluid Interfaces Group
- 2012 **Research Internship** (6 months), University of Calgary, Interaction Lab
- Research on mobile projectors in proximity-aware environments
 - Developing a rapid-prototyping framework for mobile projectors (C#/.NET)
- 2009–2010 **Freshmen Mentor**, Darmstadt University of Technology
- 2007–2009 **Freelancer**, Wendt-Media Text-Processing
- 2005 **Webdesign Internship**, WebQ

AWARDS

- 2016 Two special recognitions received for exceptional reviews at CHI'16
- 2015 Best Paper Award at ACM CHI '15 (top 1% of all submissions)
- 2013 Honorable Mention Paper Award at GRAND '13
- 2007 A 2nd price in the 2nd round of the 25th Bundeswettbewerb Informatik
- 2006 A 1st price in the 1st round of the 25th Bundeswettbewerb Informatik

SELECTED PRESS COVERAGE

Reuters • New Scientist • The Times • Daily Mail • N24 • Channel One Russia • RTL 2 News • El País • U.S. News • Frankfurter Rundschau • La Stampa • Heise make • Gizmodo • Gizmag

PROFESSIONAL ACTIVITIES

Event and Workshop Organization

- 2015–2016 Maker Day 2015 and 2016 at Saarland University
- 2016 On-Skin Technology Workshop at ACM UbiComp, Heidelberg
- 2015 Printed Electronics Tutorial at the Mensch und Computer Conference, Stuttgart
- 2015 Printed Electronics Workshop at INRIA, Paris
- 2015 Inventors Workshop on Printed Electronics (German Informatics Society), Saarbrücken

Teaching and Mentoring

- 2016 wt Interactive Skin, seminar, tutor
- 2016 st Lecture on “Wearable Computing and Interactive Skin”, presenter
- 2016 st Moderne Nutzerschnittstellen (Modern User-Interfaces), seminar, co-organizer
- 2015 wt Interactive Digital Fabrication, seminar, co-organizer
- 2014 st Developing Embedded Interactive Systems, seminar, co-organizer
- 2013 st Embodied Interaction, seminar, co-organizer

Co-supervision of three Masterthesis, one Bachelorthesis, and one Research Immersion Lab student

Presenter and Demonstrator

- Presenter and Event Speaker at ACM UbiComp '17 • ACM CHI '17 '15 '14 • Tech Open Air 2016 • ACM MobileHCI '13 • GRAND '13 • Journalism Workshop in Dagstuhl
- Demonstrator at Tech Open Air 2016 (2 days) • ACM CHI '15 (4 days) • CeBIT '15 (1 week) • Mensch und Computer '15

Voluntary Activities

- 2013– Reviewer at ACM CHI ^{x19} and others ^{x25}
- 2014 Student Volunteer at ACM CHI
- 2008–2010 Freshmen week head organizer (2010 st), activity organizer (2009), and tutor (2008–2009) at Darmstadt University of Technology. One-week program for new students.

Scholarship and Grant Application

- 2015 Helped in writing of a successful proposal for the Google Faculty Research Award (12 months, 14% acceptance)
- 2012 NSERC SurfNet scholarship for research on mobile projectors (6 months)
- 2010–2012 Saarbrücken Graduate School of Computer Science (18 months)

Selected Event Participation

- 2015 3rd Heidelberg Laureate Forum
- 2014 Summer school on printable electronics in Swansea
- 2014 Soft-skill workshop “Communication of Status”
- 2013 ACM CHI 2013 Workshop “Displays Take New Shape”
- 2013 Scientific workshop “Erfinderworkshop: Be-greifbare Interaktion”

CONFERENCE AND JOURNAL PUBLICATIONS

- [6] **Martin Weigel** and Jürgen Steimle
[DeformWear: Deformation Input on Tiny Wearable Devices](#)
In *Proceedings of ACM IMMUT*, Vol. 1, No. 2. Acceptance Rate: 21% (of 576), Journal Article.
- [5] **Martin Weigel**, Aditya Shekhar Nittala, Alex Olwal, and Jürgen Steimle
[SkinMarks: Enabling Interactions on Body Landmarks Using Conformal Skin Electronics](#)
In *Proceedings of ACM CHI '17*. Acceptance Rate: 25% (of 2424), Full Paper.
- [4] **Martin Weigel**, Tong Lu, Gilles Bailly, Antti Oulasvirta, Carmel Majidi, and Jürgen Steimle
[iSkin: Flexible, Stretchable and Visually Customizable On-Body Touch Sensors for Mobile Computing](#)
In *Proceedings of ACM CHI '15*. Acceptance rate: 23% (of 2150), Full Paper. 🏆 **Best Paper (top 1%)**
- [3] **Martin Weigel**, Vikram Mehta, and Jürgen Steimle
[More Than Touch: Understanding How People Use Skin as an Input Surface for Mobile Computing](#)
In *Proceedings of ACM CHI '14*. Acceptance rate: 23% (of 2064), Full Paper.
- [2] **Martin Weigel**, Sebastian Boring, Jürgen Steimle, Nicolai Marquardt, Saul Greenberg, and Anthony Tang
[ProjectorKit: Easing Rapid Prototyping of Interactive Applications for Mobile Projectors](#)
In *Proceedings of ACM MobileHCI '13*. Acceptance rate: 22% (53 of 238), Short Paper.
- [1] **Martin Weigel**, Sebastian Boring, Nicolai Marquardt, Jürgen Steimle, Saul Greenberg, and Anthony Tang
[From Focus to Context and Back: Combining Mobile Projectors and Stationary Displays](#)
In *GRAND '13*. Acceptance rate: 53% (36 of 68), Research Note. 🏆 **Honorable Mention Paper**

The international top-tier venue in human-computer interaction is ACM CHI.

For more details and other projects, please visit my online-portfolio: www.MartinWeigel.com