

# Michael Wessely

Postdoctoral Associate

MIT Computer Science and Artificial Intelligence Lab

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Research Interest      HCI • Printed Electronics • Interactive Materials • Computer Graphics • Computational Fabrication • Sensor Technologies • Design Tools for Makers • Tangibles

## Employment

01/2019 – 01/2020

**Massachusetts Institute of Technology, Cambridge, MA, USA**

Postdoctoral Associate, Electric Engineering and Computer Science

Advisor: Prof. Stefanie Müller

## Education

11/2015 – 12/2018

**Inria, Université Paris Sud, France**

Ph.D. at Ex)Situ group, Human Computer Interaction

Topic: Fabricating Malleable Interaction-Aware Materials

Advisors: Dr. Theophanis Tsandilas, Prof. Wendy Mackay

11/2012 – 03/2015

**Max Planck Institute, Saarland Informatics Campus, Saarbrücken, Germany**

M.Sc in Visual Computing and Computer Science

Topic: Fabricating Highly Customizable Thin Film Touch Displays

Advisors: Dr. Simon Olberding, Prof. Jürgen Steimle

## Research Internships

06/2017

Visiting Student at Hybrid Ecologies Lab, UC Berkeley, USA

3D printing interactive materials

01/2015 – 10/2015

Perception, Displays and Fabrication, MPI, Saarland University

Directional Screens, published in SCF 2017 & Journal on Computers and Graphics 2018

03/2015–04/2015

HCI Lab, MPI, Saarland University

Foldio: Digital Fabrication of Interactive and Shape-Changing Objects with Foldable Printed Electronics

published in UIST 2015

10/2013–03/2014

Exploratory Data Analysis Group, Saarland University

Developer of a visualization software for graphs in data mining

## Peer-Reviewed Publications

- [5] Shape-Aware Material: Interactive Fabrication with ShapeMe  
Michael Wessely, Theophanis Tsandilas, and Wendy E. Mackay  
In Proceedings of UIST'18, 10 pages, (21.3% acceptance rate)
- [4] Design and Analysis of Directional Front Projection Screens  
Michal Piovarči, Michael Wessely, Michał Jagielski, Marc Alexa, Wojciech Matusik, and Piotr Didyk  
In Journal 'Computers and Graphics', 2018, 12 pages
- [3] Directional Screens  
Michal Piovarči, Michael Wessely, Michał Jagielski, Marc Alexa, Wojciech Matusik, and Piotr Didyk

- In Proceedings of SCF '17, Boston, USA, 2017, 10 pages
- [2] Stretchis: Fabricating Highly Stretchable User Interfaces  
**Michael Wessely**, Theophanis Tsandilas, and Wendy E. Mackay  
 In Proceedings of UIST '16, Tokyo, Japan, 2016, 7 pages (*21% acceptance rate*)
- [1] PrintScreen: Fabricating Highly customizable Thin-Film Touch-Displays  
 Simon Oberding, **Michael Wessely**, Juergen Steimle  
 In Proceedings of UIST '14, Hawaii, USA, 2014, 10 pages, **Best Paper Award** (*top 1% of submissions*)

## Other Publications

- [4] Fabricating Malleable Interaction-Aware Materials  
**M. Wessely**  
 Thesis, 2018
- [3] Interactive Tangrami: Rapid Prototyping with Modular Paper-folded Electronics  
**M. Wessely**, N. Morenko, J. Steimle and M. Schmitz  
 in UIST'18 Adjunct, 2 pages
- [2] Summer School for Computational Fabrication and Smart Matter  
 J. Li, **M. Wessely**, S. Follmer and S. Mueller  
 in IEEE Pervasive Computing, October-December 2017, 4 pages
- [1] Digitale Fabrikation von flexiblen Displays und Touch-Oberflächen  
 Jürgen Steimle, Simon Olberding, **Michael Wessely**  
 Mensch&Computer Workshopband 2014, 2 pages

## Awards and Research Grants

- 2018 Hager Award Nominee for "Interactive Tangrami", Art Contest
- 2017 STIC Grant: Augmented Reality for Collaborative Physical Modeling and Design, 8000EUR
- 2015 Land of Ideas Award for "PrintScreen: Fabricating Highly Customizable Thin-Film Touch-Displays"
- 2014 Best Paper Award for "PrintScreen: Fabricating Highly Customizable Thin-Film Touch-Displays" at UIST '14

## Demonstrations

- 09/2018 Shape-Aware Material: Interactive Fabrication with ShapeMe  
 ACM UIST 2018, Berlin, Germany
- 06/2017 Stretchis: Fabricating Highly Stretchable User Interfaces  
 ACM SCF 2017, Boston, USA
- 10/2016 Stretchis: Fabricating Highly Stretchable User Interfaces  
 ACM UIST 2016, Tokyo, Japan
- 06/2015 PrintScreen: Fabricating Highly Customizable Thin-Film Touch-Displays  
 ACM Symposium on Pervasive Displays, Saarbrücken, Germany
- 03/2015 PrintScreen: Fabricating Highly Customizable Thin-Film Touch-Displays  
 CeBIT, Hanover, One-week exhibition, Germany

## Workshops

12/2018	Workshop on Print Technologies for Interactive Materials HRW Bottrop, Germany, 12 participants
07/2018	Workshop on Rapid Prototyping with Interactive Materials Fab'14, Toulouse, France, 22 participants
02/2015	Inventors Workshop on Printed Electronics, Saarland University

## Invited Talks

2018	Rapid Prototyping with Interactive Materials, Fab'14, Science and Research Panel, Paris
2014	Science Journalism Workshop, Dagstuhl

## Teaching

2017	Digital Fabrication, Université Paris-Sud Co-Lecturer with Prof. Sarah Fdili
2017	Computer Graphics, Polytech Paris-Sud TA with Dr. Tobias Isenberg

## Mentoring

2016	Niels Mourette, On-body sensors for Dance Performances Co-advised master thesis with Prof. Sarah Fdili
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## Conference Service

Organizing Committee	ACM UIST'19, Publicity Chair ACM UIST'18, Publicity Chair
Program Committee	ACM CHI'20
Reviewing	ACM CHI ('17,'18,'19) ACM UIST ('17,'18) ACM TEI' (18,'19) ACM DIS'19 ACM NordiCHI'18 ACM SU'18 ACM SIGGRAPH ASIA'18
Student Volunteer	ACM UIST ('17,'18) ACM SCF'17