

DR. SEBASTIAN BORING



PERSONAL INFORMATION

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Homepage <http://www.medien.ifi.lmu.de/team/sebastian.boring/>
Citizenship German
Date and place of birth 25.09.1980 in Berlin

EDUCATION

04/2006 – 07/2010 Media Informatics Group, University of Munich

Degree: Doctor of natural sciences (07/19/2010)

Grade: 1.0 (magna cum laude)

Thesis' title: "Interacting 'Through the Display': A New Model for Interacting on and Across External Displays"

Supervisor: Prof. Dr. Andreas Butz

Advisors: Prof. Dr. Patrick Baudisch
Dr. Rafael 'Tico' Ballagas

10/2002 – 03/2006 Media Informatics Group, University of Munich

Degree: Diploma in Media Informatics (03/2006)
Final grade: 1.22 (Scale from 1 to 5, 1 is best)

Minor: Business Studies

Diploma thesis: "A Wall-sized Focus plus Context Display"

Supervisor: Prof. Dr. Andreas Butz

Advisor: Dipl.-Inf. Otmar Hilliges

Project thesis: "Evaluating the Usage of Perception Technologies in Automated Capture and Access Applications"

Conducted at Georgia Institute of Technology, Atlanta, Georgia, USA (10/2004 – 03/2005)

Supervisor: Gregory Abowd, PhD (Atlanta)

Advisor: Dr. Albrecht Schmidt (Munich)

DR. SEBASTIAN BORING
(CV CONTINUED)

10/2001 – 07/2002 School of Mechanical Engineering at Technical University of Munich

06/2001 High school diploma at Josef-Effner-Gymnasium Dachau (Final grade: 2.0)

Major fields of study: Mathematics, Physics

WORK EXPERIENCE

since 04/2006 I am working in the FLUIDUM project at the University of Munich (LMU) in the Media Informatics Group on my dissertation.

Supervisor of the thesis: Prof. Dr. Andreas Butz

10/2003 – 01/2004 Student assistant at the Institute of Computer Science (Media Informatics Group):

Design of a Homepage of the Media Informatics Group with an integrated forum and newsletter system with PHP and MySQL

09/2001 – 10/2001 Internship at BMW AG, Center of Research and Engineering, Munich:

Required internship for the course of studies “mechanical engineering” at the Technical University of Munich. It included the construction of complex models by using standard methods of metal processing

INTERNATIONAL EXPERIENCE

10/2007 – 04/2008 Oulu, Finland

Joint research work between the University of Oulu and the University of Munich. The research mostly focused on novel interaction techniques between small, mobile devices (such as cell phones) and large public displays.

Supervisors: Prof. Dr. Timo Ojala (University of Oulu)
Prof. Dr. Jukka Riekkö (University of Oulu)
Prof. Dr. Andreas Butz (University of Munich)

10/2004 – 04/2005 Atlanta, Georgia, USA

Realization of my project thesis (included in my studies of Media Informatics at the University of Munich) at the Georgia Institute of Technology

Supervisors: Prof. Dr. Gregory Abowd (Georgia Institute of Technology)
Dr. Albrecht Schmidt (University of Munich)

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07/1998 – 09/1998 Grafton, New South Wales, Australia

School exchange between Josef-Effner-Gymnasium Dachau (High school) and South Grafton High School (two months)

PUBLICATIONS

Journal Articles: Baur, D., Seiffert, F., Sedlmair, M., Boring, S., *The Streams of Our Lives: Visualizing Listening Histories in Context*, In IEEE Transactions on Visualization and Computer Graphics (Proceedings Visualization / Information Visualization 2010), 2010, Salt Lake City, Utah, USA

Full Papers: Wimmer, R., Hennecke, F., Schulz, F., Boring, S., Butz, A., Hußmann, H., *Curve: Revisiting the Digital Desk*, In Proceedings of the 6th Nordic Conference on Human-Computer Interaction (NordiCHI 2010), 2010, Reykjavik, Iceland

Boring, S., Baur, D., Butz, A., Gustafson, S., Baudisch, P., *Touch Projector: Mobile Interaction through Video*. In Proceedings of the 28th ACM International Conference on Human Factors in Computing Systems (CHI 2010), 2010, Atlanta, Georgia, USA

Baur, D., Boring, S., Butz, A., *Rush: Repeated Recommendations on Mobile Devices*. In Proceedings of the 15th International Conference on Intelligent User Interfaces (IUI 2010), 2010, Hong Kong, China

Boring, S., Jurmu, M., Butz, A., *Scroll, Tilt or Move It: Using Mobile Phones to Continuously Control Pointers on Large Public Displays*. In Proceedings of OzCHI 2009, Melbourne, Australia

Sedlmair, M., Bernhold, C., Herrscher, D., Boring, S., Butz, A., *MostVis: An Interactive Visualization Supporting Automotive Engineers in MOST Catalog Exploration*. In Proceedings of IV 2009, Barcelona, Spain

Jurmu, M., Boring, S., Rieki, J., *ScreenSpot: Multidimensional Resource Discovery for Distributed Applications in Smart Spaces*. In Proceedings of Mobiquitous 2008, Dublin, Ireland

Boring, S., Altendorfer, M., Broll, G., Hilliges, O., Butz, A., *Shoot & Copy: Phocam-Based Information Transfer from Public Displays onto Mobile Phones*. In Proceedings of Mobility 2007, Singapore, Singapore

Hilliges, O., Terrenghi, L., Boring, S., Kim, D., Richter, H., Butz, A., *Designing for Collaborative Creative Problem Solving*. In Proceedings of Creativity & Cognition 2007, Washington D.C., USA

Wimmer, R., Kranz, M., Boring, S., Schmidt A., *CapTable and CapShelf – Unobtrusive Activity Recognition Using Networked Capacitive Sensors*. In Proceedings of INSS 2007, Braunschweig, Germany

Wimmer, R., Kranz, M., Boring, S., Schmidt A., *A Capacitive Sensing Toolkit for Pervasive Activity Detection and Recognition*. In Proceedings of PerCom 2007, New York, NY, USA

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- Full Papers (Continued):* Boring, S., Hilliges, O., Butz, A., *A Wall-sized Focus plus Context Display*. In Proceedings of PerCom 2007, New York, NY, USA
- Kientz, J.A., Boring, S., Abowd, G.D., Hayes, G.R., *Abaris: Evaluating Automated Capture Applied to Structured Autism Interventions*. In Proceedings of UbiComp 2005, Tokyo, Japan
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- Short Papers:* De Luca, A., Frauendienst, B., Boring, S., Hußmann, H., *My Phone is my Keypad: Privacy-Enhanced PIN-Entry on Public Terminals*. In Proceedings of OzCHI 2009, Melbourne, Australia
- Wimmer, R., Boring, S., *HandSense – Discriminating Different Ways of Grasping and Holding a Tangible User Interface*. In Proceedings of TEI 2009, Cambridge, United Kingdom
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- Demos:* Jurmu, M., Boring, S., Riecki, J., *Screenspot Resource Discovery in Smart Spaces and MobileVue Media Sharing Application*, Mobiquitous 2008, Dublin, Ireland
- Boring, S., Altendorfer, M., Broll, G., Hilliges, O., Butz, A., *Shoot & Copy: Using Mobile Phones for Accessing Information on Large Displays*, UbiComp 2007, Innsbruck, Austria
- Boring, S., Kientz, J.A., Abowd, G.D., Hayes, G.R., *Abaris: Capture and Access for Structured One-on-One Educational Settings*, UbiComp 2005, Tokyo, Japan
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- Others:* Hommer, M., Kowalski, R., Conradi, B., Wiethoff, A., Boring, S., Hußmann, H., *Creating Conversation Opportunities in Urban Spaces through Public Displays and Personal Devices*, Workshop on Designing for Crowds (in Conjunction with Pervasive 2010), 2010, Helsinki, Finland
- Boring, S., Baur, D., *Can You See Where I Point at? 2nd International Workshop on Security and Privacy in Spontaneous Interaction and Mobile Phone Use (in Conjunction with Pervasive 2010)*, 2010, Helsinki, Finland
- Chen, Y.-X., Boring, S., Butz, A., *How Last.fm Illustrates the Musical World: User Behavior and Relevant User-Generated Content*. In Proceedings of the International Workshop on Visual Interfaces to the Social and Semantic Web (VISSW 2010), 2010, Hong Kong, China
- Wimmer, R., Schulz, F., Hennecke, F., Boring, S., Hußmann, H., *Curve: Blending Horizontal and vertical Interactive Surfaces*. In Adjunct Proceedings of the 4th IEEE Workshop on Tabletops and Interactive Surfaces (IEEE Tabletop 2009), 2009, Banff, Canada
- Boring, S., *Through-the-Display Interaction in Heterogeneous Multi-Display Environments*, UbiComp 2009 Doctoral Colloquium, 2009, Orlando, Florida, USA
- Sedlmair, M., Baur, D., Boring, S., Isenberg, P., Jurmu, M., Butz, A., *Requirements for an MDE System to Support Collaborative In-Car Communication Diagnostics*, Workshop at CSCW 2008, San Diego, CA, USA
- Wimmer, R., Boring, S., Müller, J., *Tracking the WiiMote in 3D using ARToolKit*, MEIS 2008, Munich, Germany
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Others (Continued): Boring, S., *Interacting in Multi-Display Environments*, UbiComp 2007 Doctoral Colloquium, 2009, Innsbruck, Austria

Broll, G., Walker, R., Patesti, M., Boring, S., *Acceptance and Use of Simple Mobile Services – Preliminary Results and Perspectives*, Mobile Internet UX (in conjunction with MobileHCI) 2007, Singapore, Singapore

TEACHING EXPERIENCE

Summer 2010 Lecturer “Computer Graphics 1”

Summer 2009 Teaching Assistant “Computer Graphics 1”

Winter 2008/2009 Teaching Assistant “Instrumented Environments”

Summer 2008 Teaching Assistant “Human-Computer Interaction 2”

Summer 2007 Teaching Assistant “Smart Graphics”
Practical Course “Media Design”

Winter 2006/2007 Teaching Assistant “Augmented Reality”
Advanced Seminar “Interactive Tabletops”

Summer 2006 Practical Course “3D Programming”
Practical Course “3D Modeling”

ADVISED STUDENTS

Till Ballendat “Device Interoperability as a Function of Proximity and Orientation” (Project thesis, 2009/2010 at the University of Calgary, Canada)

Johannes Kiemer “Playlistr - A Playlist-Creation-Tool for Mobile Devices” (Project thesis, 2009)

Dominik Andreansky Designing an Email-Application for Tabletop Interfaces in Instrumented Environments (Project thesis, 2009)

Anna Schwanengel “Through the Display: Dynamic Focus plus Context Device on an Interactive Tabletop” (Project thesis, 2009)

Ben Blaha “VISOR - Versatile Input Steady Output Remote Control” (Project thesis, 2009)

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<i>Daniel Wolf</i>	“Focus Plus Context Using Physically Separate Devices” (Diploma thesis, 2009)
<i>Mario Obendorfer</i>	“Determining Position and Orientation of Mobile Devices in Instrumented Environments” (Project thesis, 2008)
<i>Sascha Gebhardt</i>	“iPodParty: Designing an Application to Explore the Possibilities of Combining a Tabletop Display with One or More Handheld Displays“ (Project thesis, 2008)
<i>Cun Sun</i>	“Tactile Feedback for Touch-sensitive Surfaces” (Diploma thesis, 2008/2009 at Siemens AG, Munich, Germany)
<i>Nadia Benaissa</i>	“Bring & Share: A Tabletop-based Sharing System for Information on Mobile Devices” (Project thesis, 2007/2008)
<i>Stefan Freund</i>	“Object Recognition from RADAR Raw Data using Image Processing Methods” (Diploma thesis, 2007 at BMW Group, Munich, Germany)
<i>Moritz Menzel</i>	“Interaction with a Portable Display Surface – Tracking” (Diploma thesis, 2007)
<i>Jürgen Pattis</i>	“Interaction with a Portable Display Surface – Projection” (Diploma thesis, 2007)
<i>Matthias Marm</i>	“Flash and Peep: Detecting Displays in Instrumented Environments” (Project thesis, 2006/2007)
<i>Armin Prosch</i>	“The Instrumented Kitchen“ (Diploma thesis, 2006/2006)
<i>Manuela Altendorfer</i>	“Designing a 'Shoot and Copy' Method For Mobile Devices and Large Displays” (Diploma thesis, 2006/2007)
<i>Tilman Beer</i>	“The Extended Shared Workspace - Combining Tabletop Surfaces with Mobile Displays” (Diploma thesis, 2006/2007)

TECHNICAL SKILLS

<i>Programming Skills</i>	C / C++, C#, Objective C, Qt, OpenGL, DirectX, Java / JMF / JAI / J2ME / JNI, SQL, ActionScript 2.0 (with Flash MX), PHP, XML, HTML / JavaScript
<i>Software Skills</i>	Visual Studio .NET, xCode, Eclipse, Adobe Photoshop, Adobe Premiere, 3D Studio Max, Cinema 4D, Adobe Flash, Microsoft Office
<i>Development Skills</i>	User Interface Design, Distributed Applications, Rapid Prototyping, Graphics Design, Webdesign, Database-Design, 3D Design

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LANGUAGE SKILLS

German Native language

English Fluent in spoken and written

AWARDS

02/2004 Award for “Best Graphics” for the computer game “Malefiz” developed in team work. This was done within the programming practical course of the Institute of Computer Science at the University of Munich.