

# Tilman Dingler, Ph.D.

## Curriculum Vitae

Research Fellow & Associate Lecturer  
School of Computing and Information Systems  
University of Melbourne  
Melbourne, Australia

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### ABOUT

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**Tilman Dingler** is a Research Fellow and Associate Lecturer at the School of Computing and Information Systems at the University of Melbourne. He holds a Ph.D. in Computer Science from the University of Stuttgart, a Master of Science Degree from the University of San Francisco, a Diploma from the Ludwig-Maximilians-University of Munich, and an Honors Degree from the Center of Digital Technology and Management at the University of Munich. Before coming to Melbourne, Tilman was a Project Assistant Professor at Osaka Prefecture University in Japan and spent time as a visiting post-doc at the MIT Media Lab. In between his academic career, Tilman worked in Industry as an engineer at Yahoo! Inc. and TinyCo. His research focuses on building cognition-aware technologies that help people process information more effectively, critically reflect and support decision making.

### EDUCATION

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**Dr. rer. nat. (Ph.D. in Computer Science), University of Stuttgart, Germany • 2012 - 2016**  
Official concentration in Computer Science. Advisor: Albrecht Schmidt.  
Thesis: Cognition-aware Systems to Support Information Intake and Learning.  
Committee: Jonas Kuhn, Albrecht Schmidt, Marc Langheinrich, Daniel Weiskopf, Steve Whittaker.

**M.Sc. Web Science, University of San Francisco, U.S.A. • 2010 - 2011**  
Fulbright Scholar.

**Honors Degree in Technology Management, University of Munich, Germany • 2007 - 2009**  
Center for Digital Technology and Management (CDTM).

**Diploma Media Computer Science, University of Munich, Germany • 2004 - 2010**  
Official concentration in Human-Computer Interaction. Advisor: Andreas Butz.  
Thesis: AudioFeeds - A Mobile Auditory Application for Monitoring Online Activities.

### RESEARCH POSITIONS

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**Research Fellow and Associate Lecturer, University of Melbourne, Australia • since 05/2018**  
Post-doctoral researcher at the Interaction Design Lab. Manager: Vassilis Kostakos.

**Visiting Researcher, MIT Media Lab, U.S.A. • 01/2018 - 03/2018**  
Research on cognitive interventions via thermo-feedback as well as active learning environments in VR at the Fluid Interaction Group. Collaborator: Pattie Maes.

**Project Assistant Professor, Osaka Prefecture University, Japan • 04/2017 - 12/2017**

- Department of Computer Science and Intelligent Systems at Osaka Prefecture University
- Researcher at Keio University, Graduate School for Media Design (KMD)

**Visiting Researcher, University of Cape Town, South Africa • 02/2017 - 04/2017**  
Department of Computer Science. Project: Mobile learning support in ICT4D. Collaborator: Melissa Densmore.

**Research Assistant, University of San Francisco, U.S.A. • 03/2011 - 05/2011**  
Department of Computer Science. Project: Malicious JavaScript detection. Advisor: Eunjin Jung.

**Research Assistant, University of Glasgow, U.K. • 10/2009 - 08/2010**  
Department of Computing Science. Project: 3D sound environments and haptic feedback on mobile devices.  
Advisors: Stephen Brewster, Roderick Murray-Smith.

**Visiting Researcher, University of California Berkeley, U.S.A.** • 08/2008 - 01/2009

School of Information. Project: Collaborative User Interface Design. Advisors: Yale Braunstein, Patrick Nepper.

**Visiting Researcher, Georgia Institute of Technology, U.S.A.** • 08/2007 - 11/2007

Department for Psychology. Project: System for wearable audio navigation. Advisor: Bruce Walker.

## INDUSTRY POSITIONS

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**Research Scientist Intern, Telefónica R&D, Barcelona, Spain** • 04/2014 - 08/2014

Project: Building prediction models to detect users' attentional states. Collaborators: Martin Pielot, Nuria Oliver.

**Software Development Engineer, TinyCo Inc., San Francisco, U.S.A.** • 06/2012 - 11/2012

Mobile gaming company. Role: Back-End Engineer.

**Software Development Engineer, Yahoo! Inc., Sunnyvale, U.S.A.** • 01/2012 - 06/2012

Media and technology company. Role: Front-End Engineer.

**Software Engineer Intern, Yahoo! Inc., Sunnyvale, U.S.A.** • 06/2011 - 12/2011

Media and technology company. Role: Front-End Engineering Intern.

## PUBLICATIONS

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### Refereed Conference Papers (Full)

- [18] Tilman Dingler, Benjamin Tag, Sabrina Lehrer and Albrecht Schmidt. **Reading Scheduler: Proactive Recommendations to Help Users Cope with Their Daily Reading Volume**, in Proceedings of the 17th International Conference on Mobile and Ubiquitous Multimedia, (**MUM '18**). ACM, Cairo, Egypt.
- [17] Rufat Rzayev, Tilman Dingler and Niels Henze. **ReflectiveDiary: Fostering Human Memory through Activity Summaries Created from Implicit Data Collection**, in Proceedings of the 17th International Conference on Mobile and Ubiquitous Multimedia, (**MUM '18**). ACM, Cairo, Egypt.
- [16] Tilman Dingler, Rufat Rzayev, Alireza Sahami Shirazi, and Niels Henze. **Designing Consistent Gestures Across Device Types: Eliciting RSVP Controls for Phone, Watch, and Glasses**, in Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, (**CHI '18**). ACM, Montreal, Canada.
- [15] Rufat Rzayev, Paweł Woźniak, Tilman Dingler, and Niels Henze. **Reading on HMDs: The Effect of Text Position, Presentation Type and Walking**, in Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, (**CHI '18**). ACM, Montreal, Canada.
- [14] Tilman Dingler, Dagmar Kern, Katrin Anberbauer, and Albrecht Schmidt. **Text Priming - Effects of Text Visualizations on Readers Prior to Reading**, in Human-Computer Interaction - **INTERACT 2017**, Springer, Mumbai, India.
- [13] Tilman Dingler, Dominik Weber, Martin Pielot, Jennifer Cooper, Chung-Cheng Chang, and Niels Henze. **Language Learning On-The-Go: Opportune Moments and Design of Mobile Microlearning Sessions**, in Proceedings of the 19th International Conference on Human-Computer Interaction with Mobile Devices and Services, (**MobileHCI '17**). ACM, Vienna, Austria.
- [12] Johannes Knittel, and Tilman Dingler. **Mining Subtitles for Real-Time Content Generation for Second-Screen Applications**, in Proceedings of the ACM International Conference on Interactive Experiences for TV and Online Video, (**TVX '16**). ACM, 93–103, Chicago, Illinois, USA.
- [11] Tilman Dingler, Corinna Giebler, Ulf Kunze, Tim Wuertele, Niels Henze, and Albrecht Schmidt. **Memory Displays: Investigating the Effects of Learning in the Periphery**, in Proceedings of the 5th ACM International Symposium on Pervasive Displays, (**PerDis '16**). ACM, 118–123, Oulu, Finland.
- [10] Huy V. Le, Sarah Clinch, Corina Sas, Tilman Dingler, Niels Henze, and Nigel Davies. **Impact of Video Summary Viewing on Episodic Memory Recall - Design Guidelines for Video Summarizations**, in Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, (**CHI '16**). ACM, San Jose, California, USA.
- [9]  Katrin Wolf, Yomna Abdelrahman, David Schmid, Tilman Dingler, and Albrecht Schmidt. **Effects of Camera Position and Media Type on Lifelogging Images**, in Proceedings of the 14th International Conference on Mobile and Ubiquitous Multimedia, (**MUM '15**). ACM, 234–244, Linz, Austria. **Best Paper Award**.

- [8] Tilman Dingler, Tobias Bagg, Yves Grau, Niels Henze, and Albrecht Schmidt. **uCanvas: A Web Framework for Spontaneous Smartphone Interaction with Ubiquitous Displays**, in Human-Computer Interaction - INTERACT 2015 Springer, 402–409.
- [7] Martin Pielot, Tilman Dingler, Jose San Pedro, and Nuria Oliver. **When Attention is not Scarce - Detecting Boredom from Mobile Phone Usage**, in Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (UbiComp '15). ACM, Osaka, Japan. **Best Paper Award**.
- [6] Tilman Dingler, Markus Funk, and Florian Alt. **Interaction Proxemics: Combining Physical Spaces for Seamless Gesture Interaction**, in Proceedings of the 4th International Symposium on Pervasive Displays, (PerDis '15). ACM, 107–114, Saarbruecken, Germany.
- [5] Tilman Dingler, Alireza Sahami Shirazi, Kai Kunze, and Albrecht Schmidt. **Assessment of Stimuli for Supporting Speed Reading on Electronic Devices**, in Proceedings of the 6th Augmented Human International Conference, (AH '15). ACM, 117–124, Singapore, Singapore.
- [4] Alireza Sahami Shirazi, Niels Henze, Tilman Dingler, Martin Pielot, Dominik Weber, and Albrecht Schmidt. **Large-scale Assessment of Mobile Notifications**, in Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, (CHI '14). ACM, 3055–3064, Toronto, Ontario, Canada.
- [3] Lars Lischke, Tilman Dingler, Stefan Schneegass, Albrecht Schmidt, Merel Vaart, and Pawel Wozniak. **Parallel Exhibits: Combining Physical and Virtual Exhibits**, in NODEM 2014 Conference & Expo Engaging Spaces.
- [2] Alireza Sahami Shirazi, Niels Henze, Tilman Dingler, Kai Kunze, and Albrecht Schmidt. **Upright or sideways?: Analysis of smartphone postures in the wild**, in Proceedings of the 15th international conference on Human-computer interaction with mobile devices and services (MobileHCI '13), 362–371.
- [1] Tilman Dingler, Jeffrey Lindsay, and Bruce N Walker. **Learnability of sound cues for environmental features: Auditory icons, earcons, spearcons, and speech**, in Proceedings of the 14th International Conference on Auditory Display (ICAD '08), Paris, France.

#### Refereed Conference Papers (Notes)

- [6] Tilman Dingler, Rufat Rzayev, Valentin Schwind, and Niels Henze. **RSVP on the Go: Implicit Reading Support on Smart Watches Through Eye Tracking**, in Proceedings of the 2016 ACM International Symposium on Wearable Computers, (ISWC '16). ACM, 116–119, Heidelberg, Germany.
- [5] Tilman Dingler, Passant El Agroudy, Gerd Matheis, and Albrecht Schmidt. **Reading-based Screenshot Summaries for Supporting Awareness of Desktop Activities**, in Proceedings of the 7th Augmented Human International Conference 2016, (AH '16). ACM, 27:1–27:5, Geneva, Switzerland.
- [4] Tilman Dingler, and Martin Pielot. **I'll Be There for You: Quantifying Attentiveness Towards Mobile Messaging**, in Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services, (MobileHCI '15). ACM, 1–5, Copenhagen, Denmark.
- [3] Thomas Kubitz, Norman Pohl, Tilman Dingler, and Albrecht Schmidt. **WebClip: a connector for ubiquitous physical input and output for touch screen devices**, in Proceedings of the 2013 ACM international joint conference on Pervasive and ubiquitous computing (UbiComp '13), 387–390.
- [2] Stefan Schneegass, Bastian Pfleging, Tilman Dingler, and Albrecht Schmidt. **Interaction Spaces: Interactive Spatial Areas to Control Smart Environments**, in Mensch & Computer 2013, 333–336, Bremen, Germany.
- [1] Tilman Dingler, and Stephen Brewster. **AudioFeeds: a mobile auditory application for monitoring online activities**, in Proceedings of the international conference on Multimedia (ACM Multimedia '10), 1067–1070.

#### Refereed Conference Papers (with Posters)

- [10] Tilman Dingler, Kai Kunze, and Benjamin Outram. **VR Reading UIs: Assessing Text Parameters for Reading in VR**, in Proceedings of the 2018 CHI Conference Extended Abstracts on Human Factors in Computing Systems, (CHI EA '18). ACM, Montréal, Canada.
- [9] Takashi Goto, Benjamin Tag, Kai Kunze, and Tilman Dingler. **Towards Enhancing Emotional Responses to Media using Auto-Calibrating Electric Muscle Stimulation (EMS)**, in Proceedings of the 9th Augmented Human International Conference, (AH '18). ACM, Seoul, South Korea.

- [8] Miriam Greis, Tilman Dingler, Albrecht Schmidt, and Chris Schmandt. **Leveraging user-made predictions to help understand personal behavior patterns**, in Proceedings of the 19th International Conference on Human-Computer Interaction with Mobile Devices and Services (**MobileHCI '17**). ACM, New York, NY, USA.
- [7] Mai Elkomy, Yomna Abdelrahman, Markus Funk, Tilman Dingler, Albrecht Schmidt, and Slim Abdennadher. **ABBAS: An Adaptive Bio-sensors Based Assistive System**, in Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems, (**CHI EA '17**). ACM, 2543–2550, Denver, Colorado, USA.
- [6] Susana Sanchez, Tilman Dingler, Heng Gu, and Kai Kunze. **Embodied Reading: A Multisensory Experience**, in Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems, (**CHI EA '16**). ACM, 1459–1466, Santa Clara, California, USA.
- [5] Dominik Weber, Alexandra Voit, Tilman Dingler, Manuela Kallert, and Niels Henze. **Assessment of an Unobtrusive Persuasive System for Behavior Change in Home Environments**, in Proceedings of the 5th ACM International Symposium on Pervasive Displays, (**PerDis '16**). ACM, 245–246, Oulu, Finland.
- [4] Katrin Wolf, Stefan Schneegass, Niels Henze, Dominik Weber, Valentin Schwind, Pascal Knierim, Sven Mayer, Tilman Dingler, Yomna Abdelrahman, Thomas Kubitzka, Markus Funk, Anja Mebus, and Albrecht Schmidt. **TUIs in the Large: Using Paper Tangibles with Mobile Devices**, in Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems, (**CHI EA '15**). ACM, 1579–1584, Seoul, Republic of Korea.
- [3] Katrin Angerbauer, Tilman Dingler, Dagmar Kern, and Albrecht Schmidt. **Utilizing the Effects of Priming to Facilitate Text Comprehension**, in Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems, (**CHI EA '15**). ACM, 1043–1048, Seoul, Republic of Korea.
- [2] Tilman Dingler, and Albrecht Schmidt. **A Real-Time Bidding Platform for Public Displays**, in Proceedings of the 4th International Symposium on Pervasive Displays, (**PerDis '15**). ACM, 245–246, Saarbrücken, Germany.
- [1] Kai Kunze, Susana Sanchez, Tilman Dingler, Olivier Augereau, Koichi Kise, Masahiko Inami, and Terada Tsutomu. **The Augmented Narrative: Toward Estimating Reader Engagement**, in Proceedings of the 6th Augmented Human International Conference, (**AH '15**). ACM, 163–164, Singapore, Singapore.

#### Journal and Magazine Articles

- [6] Tilman Dingler, Albrecht Schmidt, and Tonja Machulla. **Building Cognition-Aware Systems: A Mobile Toolkit for Extracting Time-of-Day Fluctuations of Cognitive Performance**, in Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT '17**). ACM, Maui, USA.
- [5] Yomna Abdelrahman, Eduardo Velloso, Tilman Dingler, Albrecht Schmidt, and Frank Vetere. **Cognitive Heat: Exploring the Usage of Thermal Imaging to Unobtrusively Estimate Cognitive Load**, in Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT '17**). ACM, Maui, USA.
- [4] Tilman Dingler, Philipp Wahju, Pascal Knierim, and Albrecht Schmidt. **Memory Support through In-Home Display Deployment**. *IT Professional* 18, no. 6 (2016): 42-49.
- [3] Tilman Dingler, Passant El Agroudy, Huy Viet Le, A. Schmidt, Evan Niforatos, Aagon Bexheti, and Marc Langheinrich. **Multimedia Memory Cues for Augmenting Human Memory**, *IEEE MultiMedia* 23, no. 2 (2016): 4-11.
- [2] Thomas Kubitzka, Norman Pohl, Tilman Dingler, Stefan Schneegass, Christian Weichel, and Albrecht Schmidt. **Ingredients for a new wave of ubicomp products**, *IEEE Pervasive Computing* 12, no. 3 (2013): 5-8.
- [1] Bruce N Walker, Jeffrey Lindsay, Amanda Nance, Yoko Nakano, Dianne K Palladino, Tilman Dingler, and Myoungsoon Jeon. **Spearcons (speech-based earcons) improve navigation performance in advanced auditory menus**, *Human Factors: The Journal of the Human Factors and Ergonomics Society*, SAGE Publications, 55, 1.

#### Workshops

- [6] Sarah Clinch, Tilman Dingler, Kai Kunze, Passant ElAgroudy, and Tsutomu Terada. **WAHM 2017: 4th Workshop on Ubiquitous Technologies for Augmenting the Human Mind - Sharing Experiences**, in Adjunct Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '16**). ACM, Vienna, Austria.
- [5] Tilman Dingler, Kai Kunze, Evangelos Niforatos, Cathal Gurrin, Ioannis Giannopolos, Andreas Dengel, and Koichi Kise. **WAHM 2016: 3rd Workshop on Ubiquitous Technologies for Augmenting the Human Mind**, in Adjunct Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '16**). ACM, 1010–1013, Heidelberg, Germany.

- [4] Kai Kunze, Tilman Dingler, Niels Henze, Koichi Kise, and Yoichi Sato. **2Nd Workshop on Ubiquitous Technologies to Augment the Human Mind: Towards the Knowledge Log**, in Adjunct Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '15**). ACM, 1213–1216, Osaka, Japan.
- [3] Tilman Dingler, Agon Bexheti, Evangelos Niforatos, and Florian Alt. **Workshop on Mobile Cognition: Using Mobile Devices to Enhance Human Cognition**, in Adjunct Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services, (**MobileHCI '15**). ACM, 970–973, Copenhagen, Denmark.
- [2] Tilman Dingler, Albrecht Schmidt, Kai Kunze, Marc Langheinrich, Nigel Davies, and Niels Henze. **WAHM 2014: workshop on ubiquitous technologies for augmenting the human mind**, in Adjunct Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '14**), 1339–1345.
- [1] Thomas Kubitzka, Albrecht Schmidt, Norman Pohl, Daniela Petrelli, Tilman Dingler, and Nick Dulake. **Tools and methods for creating interactive artifacts**, In Proceedings of the 8th International Conference on Tangible, Embedded and Embodied Interaction (**TEI '14**), 385–388.

### Workshop Papers

- [7] Weiwei Jiang, Gabriele Marini, Niels van Berkel, Zhanna Sarsenbayeva, Chu Luo, Xin He, Tilman Dingler, Yoshihiro and Kawahara, Vassilis Kostakos. **A Mobile Scanner for Probing Liquid Samples in Everyday Settings**, in Adjunct Proceedings of the 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '18**). ACM, New York, NY, USA.
- [6] Tilman Dingler, Ashris Choudhury, and Vassilis Kostakos. **Biased Bots: Conversational Agents to Overcome Polarization**, in Adjunct Proceedings of the 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '18**). ACM, New York, NY, USA.
- [5] Tilman Dingler, Takashi Goto, Benjamin Tag, and Kai Kunze. **EMS icons: conveying information by analogy to enhance communication through electrical muscle stimulation**, in Adjunct Proceedings of the 2017 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '17**). ACM, New York, NY, USA.
- [4] Tilman Dingler. **Cognition-aware Systems As Mobile Personal Assistants**, in Adjunct Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '16**). ACM, 1035–1040, Heidelberg, Germany.
- [3] Markus Funk, Tilman Dingler, Jennifer Cooper, and Albrecht Schmidt. **Stop Helping Me - I'm Bored!: Why Assembly Assistance Needs to Be Adaptive**, in Adjunct Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (**UbiComp '15**). ACM, 1269–1273, Osaka, Japan.
- [2] Tilman Dingler, and Niels Henze. **That's the Dog from my Wedding – Algorithms for Memory Shaping**, in Proceedings of the CHI Workshop on Designing Technology for Major Life Events (**CHI '14**), 2014.
- [1] Tilman Dingler, Alireza Sahami Shirazi, and Niels Henze. **There is More to Wellbeing than Health Data – Holistic Lifelogging through Memory Capture**, in Proceedings of the CHI Workshop on Beyond Quantified Self: Data for Wellbeing (**CHI '14**), 2014.

### Book Chapter

- [1] Tilman Dingler, and Albrecht Schmidt. **Peripheral Displays to Support Human Cognition**, In Peripheral Interaction (**Book Chapter**) Springer International Publishing, 167–181.

### Patents

- [3] Martin Pielot, Nuria Olivier Ramirez, Tilman Dingler. **Method, Apparatus and System for Monitoring Attention Level of a User of a Communications Device**, US Patent App. 15/142,349, 2017.
- [2] John Eugene Neystadt, Martin Pielot, Tilman Dingler, and Yan Grunenberger. **A computer-implemented method for protecting classified content on a computing device and computer programs thereof**, Google Patents, 2016.
- [1] Gregoire Lefebvre, Andrew Crossan, Tilman Dingler, Murray-Smith Roderick, and Zijp-Rouzier Sophie. **Creation Simpliffee D'un Signal Sonore Ou Vibratoire**, FR Patent FR2,971,866, 2012.

### Selected Popular Press

- [10] Digital Trends. **“Thermal imaging can reveal just how hard your brain is working”**, September 21, 2017

- [9] Basicthinking. “**Medienschungel: Borapp – die App gegen Langeweile?**”, October 28, 2015
- [8] Mashable. “**How your smartphone can tell if you're bored**”, September 3, 2015.
- [7] MIT Technology Review. “**Your smartphone can tell if you're bored**”, September 2, 2015.
- [6] Siliconrepublic. “**Boredom-detecting smartphones not far away**”, September 2, 2015
- [5] derStandard.at. “**Lesen geht nicht mehr weg**”, Januar 25, 2015.
- [4] Der Spiegel. “**Die Zukunft des Lesens**”, 50/2014.
- [3] Bild der Wissenschaft. “**Lesen unter Beobachtung**”, September 16, 2014.
- [2] Stuttgarter Zeitung. “**Auf dem Kindle liest es sich schneller**”, Dezember 19, 2013.
- [1] Spektrum.de. “**Bits und Bytes statt Buchregal**”, October 22, 2013

## GRANTS & FUNDING

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### **UA-DAAD (German Academic Exchange Service) • 2019**

AUD 25,000 for the project “Adaptive Learning Interfaces” in the context of the Australia-Germany Joint Research Cooperation Scheme between University of Melbourne, the German Research Center for Artificial Intelligence (DFKI), and the Technische Universität Kaiserslautern.

### **Early Career Researcher Grant (ECR) Scheme of The University of Melbourne • 2019**

AUD 38,000 for the project “Critical media - Building Technologies for Media Literacy and Depolarisation”.

## AWARDS

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### **Wolfgang Heilmann Award for Education for the E-Society • 2016**

1<sup>st</sup> place for the project proposal: Knowledge Transfer through Microlearning.

### **Best Paper Award, International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) • 2015**

Authors: Martin Pielot, Tilman Dingler, Jose San Pedro, and Nuria Oliver. Paper: When Attention is not Scarce - Detecting Boredom from Mobile Phone Usage.

### **Best Paper Award, International Conference on Mobile and Ubiquitous Multimedia (MUM) • 2015**

Authors: Katrin Wolf, Yomna Abdelrahman, David Schmid, Tilman Dingler, and Albrecht Schmidt. Paper: Effects of Camera Position and Media Type on Lifelogging Images.

### **Fulbright Scholarship • 2010 - 2011**

American scholarship program for international educational exchanges. M.Sc. at University of San Francisco, U.S.A.

### **Wolfgang Heilmann Award for Humane Usage of Information Technology • 2007**

2<sup>nd</sup> place for the project proposal: YouShop, a Personalized Retail Concept.

### **High School Graduation Award: Pierre de Coubertin Medal • 2004**

Outstanding achievements in sportsmanship, fairness, and social commitment in the community.

## PROFESSIONAL ACTIVITIES

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### **Conference Committees**

Workshop and Tutorial Chair, International Conference on Mobile and Ubiquitous Multimedia (MUM): 2018.  
Language Inclusion Chair, Conference on Human Factors in Computing Systems (CHI): 2016.

## Program Committees

Member, Conference on Human Factors in Computing Systems (CHI): 2019.  
Associate Editor, Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT): since 2017.  
Member, EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth): 2019.  
Member, Australian Computer-Human Interaction Conference (OzCHI): 2018.  
Member, International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI): 2018.  
Member, International Symposium on Pervasive Displays (PerDis): 2018.  
Member, International Conference on Mobile and Ubiquitous Multimedia (MUM): 2017, 2018.  
Member, Mensch und Computer (MuC) : 2017, 2018.  
Member of the Late-Breaking Work committee, Conference on Human Factors in Computing Systems (CHI): 2016.

## Peer-Reviewer

ACM International Conference on Intelligent User Interfaces (IUI): 2019.  
ACM Transactions on Computer-Human Interaction (TOCHI): 2018.  
Conference on Human Factors in Computing Systems (CHI): since 2013 (Excellent Reviewer Recognition, 2017).  
Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT): since 2017.  
Symposium on User Interface Software and Technology (UIST): 2018.  
International Conference on Multimodal Interaction (ICMI): 2017, 2018.  
International Symposium on Wearable Computers (ISWC): 2017, 2018.  
Nordic forum for Human-Computer Interaction (NordiCHI): 2014, 2016, 2018.  
Designing Interactive Systems (DIS): 2017.  
Interaction Design Association (IXDA): 2017.  
International Journal of Human-Computer Studies: 2015, 2017.  
International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI): 2014 - 2016.  
International Conference on Pervasive Computing and Communications (PerCom): 2016.  
IT - Information Technology: 2016.  
International Symposium on Pervasive Displays (PerDis): 2015.  
International Conference on Mobile and Ubiquitous Multimedia (MUM): 2015.  
International Conference on Tangible, Embedded and Embodied Interaction (TEI): 2015, 2018, 2019.  
International Conference on Pervasive Computing Technologies for Healthcare: 2015.  
IEEE Pervasive Computing: 2014.

## Professional Memberships

Member of the Association for Computing Machinery (ACM)  
Member of the Special Interest Group on Computer-Human Interaction (ACM SIGCHI)

## Student Volunteer

ACM Conference on Human Factors in Computing Systems (CHI): 2016.  
International Symposium on Wearable Computers (ISWC): 2007.

## Engagement and Outreach Activities at University of Melbourne, School of Computing and Information Systems (CIS)

Reviewer, panel judge, and session chair at the CIS Doctoral Consortium (DC), 2018.  
CIS representative at Open Day, 2019: responsible for the Bachelor of Sciences program.  
CIS Ambassador: programming for girls in High School, Melbourne, 2018.  
Facilitator for the Victorian Indigenous Engineering Winter School, 2018.  
Team lead of the IDL team participating in the Melbourne Business School Datathon, 2018.

## Honorary Appointments

**Co-founder & Chairman, SIGCHI Local Chapter, Melbourne** • since 2018  
Promote and advance human-computer interaction in the local academic and professional UX community.

**Co-founder & Chairman, Society of Simulation Technology e.V., Germany** • 2013 - 2014  
Student and alumni association for the graduate program of simulation technology.



**Chairman, TEG - The Entrepreneurial Group e.V., Munich, Germany • 2007 - 2008**  
German-wide student initiative for entrepreneurship education.

## TEACHING

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### University of Melbourne

Guest Lecturer                      Mobile Computing Systems Programming                      2nd Term, 2018

### Keio Graduate School for Media Design, Keio University

Coordinator / Instructor              Seminar: Scientific Writing                      Summer Term 2017

Instructor                      Workshop: Prototyping                      Summer Term 2017

### University of Stuttgart

Coordinator / Instructor              Lecture: Programming for Media Informatics                      Winter Term 2015, 2016

Coordinator / Instructor              Seminar: Ubiquitous Technologies for Augmenting the Human                      Summer Term 2015

Instructor                      Practical Course: Interactive Systems                      Winter Term, 2014

Instructor                      Practical Course: Mobile Gaming                      Summer Term, 2014

## INVITED TALKS

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- [14] **MIT CSAIL**, Cambridge, Cognition-Aware Computing, hosted by Stefanie Müller.                      2018
- [13] **MIT Media Lab**, Cambridge, Cognition-Aware Computing, hosted by Pattie Maes.                      2018
- [12] **National Taiwan University**, Taiwan, Cognition-Aware Computing: Detecting Cognitive Performance Levels and Fluctuations, hosted by Liwei Chan.                      2017
- [11] **University of Melbourne**, Australia, Cognition-Aware Computing, hosted by Vassilis Kostakos.                      2017
- [10] **University of Cape Town**, South Africa, Cognition-Aware Systems, hosted by Melissa Densmore.                      2017
- [9] **University of California Santa Cruz**, USA, Context-Aware Content Delivery, hosted by Steve Whittaker.                      2016
- [8] **Klett Verlag** (Publishing House), Germany, Lesen im Digitalen Zeitalter.                      2016
- [7] **snips.ai**, France, Context-Aware Content Delivery, hosted by CEO Rand Hindi.                      2016
- [6] **University of California, Berkeley**, USA, Lecture on Sensors, Humans, Data, and Apps, hosted by John Chuang.                      2015
- [5] **Stanford University**, USA, Ubiquitous Technologies for Augmenting Human Memory, hosted by James Landay.                      2015
- [4] **Yahoo! Inc**, USA, Ubiquitous Technologies for Augmenting Human Memory, hosted by Jofish Kaye.                      2015
- [3] **Keio University**, Japan, Ubiquitous Technologies for Augmenting the Human Mind, hosted by Kai Kunze.                      2015
- [2] **SIEMENS, Berkeley**, USA, Ubiquitous Technologies for Augmenting the Human Mind, hosted by Florian Michahelles.                      2014
- [1] **World Usability Day**, Germany, Ubiquitäre Interaktion in einer vernetzten Gesellschaft.                      2013

## SUPERVISION

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### Master Thesis

[9] **Jia Liu**, Mobile Toolkit to Assess the Effect of Usage Context on Smartphone Interaction                      2018



- [8] **Yifan Bu**, Gaze Tracking and Adaptation of Reading Ambiance in VR 2018
- [7] **Buyan Li**, The Giant Island - VR Reading Interfaces 2018
- [6] **Pedram Khoshdani**, From Lab to the Wild - Conducting Psychological Experiments in the Large. 2016
- [5] **Rufat Rzayev**, A Tool for Episodic Memory Reflection Based on Implicit Diary Entries. 2016
- [4] **Sabrina Lehrer**, Leseplaner - Bewältigen des Lesevolumens mithilfe von proaktiven Leseempfehlungen. 2016
- [3] **Huy Viet Le**, Development and Evaluation of Automatic Video Recaps from Lifelog Data. 2015
- [2] **Dominique Rau**, Investigation of User interfaces for Computer-Aided Text Input in the Context of Social Communication. 2015
- [1] **Johannes Knittel**, Automatic Content Generation for Second Screen Apps Using Subtitles to Enhance the Learning Experience. 2015

#### Diploma Thesis

- [10] **Eugen Mannweiler**, Leseaktivitäten auf großen, hochauflösenden Displays. 2015
- [9] **Victor Riempp**, Entwicklung einer App zur Leseverfolgung auf Mobilgeräten. 2015
- [8] **Micha Pitterle**, Gedächtnisunterstützung mittels Audio im Museumskontext. 2014
- [7] **Philipp Wahju**, Automated Summaries for Implicitly Captured Data Highlights. 2014
- [6] **Florian Pfeiderer**, Explicit Capture of Dedicated Moments for Knowledge Acquisition and Retention. 2014
- [5] **Mina Metias**, Combining Multiple Gesture Sensing Technologies to Interact with Public Displays. 2014
- [4] **Larsch Lischke**, Parallel Exhibitions: Empowering Users to Virtually and Physically Design Customized Museum Exhibits. 2014
- [3] **Alexander Martin**, LeapMotion Gesture Interaction. 2014
- [2] **Robin Goldberg**, Using Narration Networks to Model Distributed Tangible Systems for Cultural Heritage Sites. 2013
- [1] **Benjamin Steeb**, Ortung und ortungsbezogene Anwendung im Museums-Kontext. 2013

#### Bachelor Thesis

- [7] **Ken Singer**, Gamifikation und Evaluierung eines Handy-Toolkits zur Bestimmung kognitiver Performanz. 2017
- [6] **Thommy Zelenik**, Correlation between Measured Stress and Attention with Thermal Imaging Techniques. 2016
- [5] **Jenny Schmalfluss**, An Analysis of Bandit Algorithms in IoT Applications. 2016
- [4] **Gerd Matheis**, Entwicklung und Evaluation einer Anwendung zur automatischen Speicherung und Verwaltung gelesener Texte auf Desktop PCs. 2015
- [4] **Katrin Angerbauer**, Investigating the Effect of Priming on Reading Performance on Electronic Devices. 2015
- [3] **Paul Metzger**, Infrastructure Support for Augmented Memory. 2014
- [2] **Yves Grau**, Ephemeral Messaging: How Short-Lived Communication Changes Communication Behavior. 2014
- [1] **David Krauss**, Human Memory Support via Digital Association Chains. 2014

#### Research project students

- [7] **Sebastian Kunz, Christian Schierle, and Ken Singer**. Visualization and Management of Large Datasets Stored in Graph-Based Databases. 2017
- [6] **Katrin Angerbauer, Steven Großmann, and Christoph Krieger**. Entwicklung und Analyse eines Text-visualisierungs Tools. 2016
- [5] **Corinna Giebler, Tim Würtele, and Ulf Kunze**. Passives Lernen durch Memory Displays. 2015
- [4] **Niklas Kaulitz, Sebastian Richter, and Sebastian Günther**. A Robot Control System with the LeapMotion. 2013

- [3] **David Krauss, Mathias Landwehr, and Paul Brombosch.** Comparison of Visual Face Tracker Frameworks. 2013
- [2] **Yves Grau and Tobias Bagg.** uCanvas: A Web Framework for Spontaneous Smartphone Interaction with Ubiquitous Displays. 2013
- [1] **Olaf Hoffeld, Thomas Kosch, and Eric Seiz.** Real-Time Bidding System for Pervasive Devices. 2013