

# Appendix 3: Curriculum vitae and publication list

Chat Wacharamanotham  
Assistant Professor of Interaction Design  
Department of Informatics  
University of Zurich

## Education

- 2010 – 2016 **Doctoral study (Dr. rer. nat.)**  
The Chair of Computer Science 10 (Media Informatics and Human–Computer Interactions), RWTH Aachen University, Germany
- Dissertation title: “Drifts, Slips, and Misses: Input Accuracy for Touch Surfaces”
  - Overall grade: Magna Cum Laude
- 2007 – 2009 **Master in Informatics**  
The University of Edinburgh and RWTH Aachen University
- Dissertation: “A Framework for Semi-automatic Data Update for a Curated Database” (Design and implement RDF-based framework for curating and maintaining metabolic networks)
- 2002 – 2005 **Bachelor in Computer Science**  
Chulalongkorn University, Thailand
- Thesis: “A Study of Substring Search in Massive Databases” (Implement and evaluate algorithms for indexing and retrieval in a genome database)

## Funding

- 2017 **ATStat: Active Training of Statistics (39600 CHF for 1.5 years)**  
Source: University of Zurich Teaching Fund (Lehrkredit)
- The Lehrkredit fund aims to promote innovations in teaching and the further development of existing teaching formats. ATStat project is a collaboration between the Department of Informatics and the Department of Psychology to develop an online interactive training platform for students to learn concepts in statistics.
- 2016 **SIGCHI development fund for organizing a workshop, which led to the founding of Bangkok ACM SIGCHI Chapter (2250 USD)**  
Source: ACM SIGCHI
- SIGCHI development fund provide resources to alleviate some of the constraints that can stifle the exchange of ideas across our diverse community and around the world.

## Work experience

- June 2016 – Present **Assistant Professor of Interaction Design**  
People and Computing Lab, University of Zurich, Switzerland
- Conduct research projects in Human–Computer Interactions
  - Teach introductory course in Human–Computer Interactions
  - Mentor Bachelor’s and Master’s thesis students
- November 2015 – May 2016 **Research Assistant (transitional position)**  
People and Computing Lab, University of Zurich, Switzerland
- Conduct research projects in Human–Computer Interactions
  - Teach introductory course in Human–Computer Interactions
  - Mentor Bachelor’s and Master’s thesis students

- 2010 – 2015 **Research Assistant**  
The Chair of Computer Science 10 (Media Informatics and Human–Computer Interactions), RWTH Aachen University, Germany
- Conduct research projects in Human–Computer Interactions
  - Teach introductory and advanced course in Human–Computer Interactions
  - Mentor Bachelor’s and Master’s thesis students
  - Design, implement, and evaluate interactive systems for industry projects
- March – December 2009 **Student Assistant**  
The Chair of Computer Science 10 (Media Informatics and Human–Computer Interactions), RWTH Aachen University, Germany
- Design and implementation of projects in Cocoa and iPhone
  - Location tracking for Aixplorer—location-aware audio guide for Aachen town hall
  - Personal Orchestra: Digital music conducting exhibition at Haus der Musik, Vienna
- March – October 2009 **Student Assistant**  
The Department of Medical Informatics, Division of Medical Image Processing and the Chair of Computer Science 6, RWTH Aachen University, Germany
- Extend image retrieval framework for automatic assessment of bone age from x-ray images
- 2005 – 2006 **Research Assistant**  
Natural Language Processing and Artificial Intelligent System Technology Laboratory, Kasetstart University, Thailand
- Develop linguistic treebank server and linguistic tree editor
- 2002 – 2004 **Student Assistant**  
Natural Language Processing and Artificial Intelligent System Technology Laboratory, Kasetstart University, Thailand
- Develop a probabilistic context-free grammar parser for Thai language
  - Develop a user interface for an agriculture web knowledge base.
- March – May 2005 **Student Intern**  
ExxonMobil Affiliate, Thailand
- Design and implement human resource database subsystem
  - Administer SAP system

## Awards & recognitions

- 2013 **Nominated for the Teaching award**  
The Computer Science Department, RWTH Aachen University, Germany
- For iPhone Programming class in winter semester 2013
  - One of the five candidates from the entire teaching assistants in the Department of Computer Science through nominations by students in that semester
  - The award is organized by student council (Fachschaft I/1)
- 2010 – 2013 **B-IT Research School Scholarship**  
Bonn-Aachen International Center for Information Technology Foundation (B-IT), Germany
- A full scholarship for Ph.D. study
- 2008 – 2009 **Erasmus Mundus Scholarship**  
The European Commission
- A full scholarship for M.Sc. study

## 2003 – 2005 **Junior Science Talent Project Scholarship**

Thailand National Science and Technology Development Agency

- A full scholarship for B.Sc. study

## Professional engagements

### Professional societies

2016 – present Secretary of Bangkok ACM SIGCHI Chapter

2016 Co-founded the Bangkok ACM SIGCHI Chapter

### Conference program committee

- ACM CHI 2017 Late-breaking work
- ACM DIS 2017 (Technological Innovation subcommittee)
- ACM DIS 2016 (Technological Innovation subcommittee)
- BELIV (Beyond Time And Errors: Novel Evaluation Methods For Visualization) workshop at IEEE VIS 2016, 2018

### Reviewer

*Main technical papers in the following venues*

	11	12	13	14	15	16	17	18
CHI				★	★			★
UIST				★		★		
VIS								
Mobile HCI								
UbiComp								
SUI								

*Other review venues:*

- ITS/ISS 2014–15
  - C&C 2015
  - GI 2013
  - APCHI 2012
  - CHI Play 2014, 2015 (★)
  - TVX 2014, 2015
  - DIS 2012, 2016 (★)
  - International Journal of Human-Computer Studies (IJHCS)
- ★ marks special recognition for the quality of the review

2016 – present **Co-founder and secretary of Bangkok ACM SIGCHI Chapter**

2014 – 2016 **Co-moderator of CHI-JOBS mailing list**

ACM SIGCHI mailing list for job opportunities announcements

2010 – 2012 **Student volunteer**

DIS 2010, UIST 2011, UIST 2012 conference

2012 – 2013 **Elected student representative**

B-IT Research School Students, RWTH Aachen University and The University of Bonn

2007 **Elected student representative**

European Master in Informatics students, The University of Edinburgh

2005 **Selected student representative for joining AC21 Student World Forum**

2002 – 2005 **Member of student union, Faculty of Science, Chulalongkorn University**

European Master in Informatics students, The University of Edinburgh

- 2002: member of editorial division
- 2003 chief editor
- 2004 support staff
- 2005 chief of evaluation

## Complete List of Publications

### Journal articles

Helen Ai He, Naomi Yamashita, [Chat Wacharamanotham](#), Andrea B. Horn, Jenny Schmid, and Elaine M. Huang. 2017. **Two Sides to Every Story: Mitigating Intercultural Conflict through Automated Feedback and Shared Self-Reflections in Global Virtual Teams**. Proceedings of the ACM on Human-Computer Interaction. 1, CSCW, Article 51 (December 2017), 21 pages. DOI: <https://doi.org/10.1145/3134686>.

### Peer-reviewed archival conference papers

Simon Voelker, Kjell Ivar Øvergård, [Chat Wacharamanotham](#), and Jan Borchers. 2015. **Knobology Revisited: A Comparison of User Performance between Tangible and Virtual Rotary Knobs**. In *Proceedings of the ACM International Conference on Interactive Tabletops and Surfaces (ITS '15)*. ACM, New York, NY, USA, 35–38.

[Chat Wacharamanotham](#), Krishna Subramanian, Sarah Theres Völkel, and Jan Borchers. 2015. **Statsplorer: Guiding Novices in Statistical Analysis**. In *Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI '15)*. ACM, New York, NY, USA, 2693–2702. DOI=10.1145/2702123.2702347 <http://doi.acm.org/10.1145/2702123.2702347>

Florian Heller, Stefan Ivanov, [Chat Wacharamanotham](#), and Jan Borchers. 2014. **FabriTouch: exploring flexible touch input on textiles**. In *Proceedings of the 2014 ACM International Symposium on Wearable Computers (ISWC '14)*. ACM, New York, NY, USA, 59–62. DOI=10.1145/2634317.2634345 <http://doi.acm.org/10.1145/2634317.2634345>

[Chat Wacharamanotham\\*](#), Kashyap Todi\*, Marty Pye\*, and Jan Borchers. 2014. **Understanding finger input above desktop devices**. In *Proceedings of the 32nd annual ACM conference on Human factors in computing systems (CHI '14)*. ACM, New York, NY, USA, 1083–1092. DOI=10.1145/2556288.2557151 <http://doi.acm.org/10.1145/2556288.2557151>

Simon Voelker\*, [Chat Wacharamanotham\\*](#), and Jan Borchers. 2013. **An evaluation of state switching methods for indirect touch systems**. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '13)*. ACM, New York, NY, USA, 745–754. DOI=10.1145/2470654.2470759 <http://doi.acm.org/10.1145/2470654.2470759>

Simon Voelker, Malte Weiss, [Chat Wacharamanotham](#), and Jan Borchers. 2011. **Dynamic portals: a lightweight metaphor for fast object transfer on interactive surfaces**. In *Proceedings of the ACM International Conference on Interactive Tabletops and Surfaces (ITS '11)*. ACM, New York, NY, USA, 158–161. DOI=10.1145/2076354.2076384 <http://doi.acm.org/10.1145/2076354.2076384> (Best note award)

Malte Weiss, [Chat Wacharamanotham](#), Simon Voelker, and Jan Borchers. 2011. **FingerFlux: near-surface haptic feedback on tabletops**. In *Proceedings of the 24th annual ACM symposium on User interface software and technology (UIST '11)*. ACM, New York, NY, USA, 615–620. DOI=10.1145/2047196.2047277 <http://doi.acm.org/10.1145/2047196.2047277> (Best demo award 3rd place)

[Chat Wacharamanotham](#), Jan Hurtmanns, Alexander Mertens, Martin Kronenbuerger, Christopher Schlick, and Jan Borchers. 2011. **Evaluating swabbing: a touchscreen input method for elderly users with tremor**. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '11)*. ACM, New York, NY, USA, 623–626. DOI=10.1145/1978942.1979031 <http://doi.acm.org/10.1145/1978942.1979031>

[Chatchavan Wacharamanotham](#), Mukda Suktarachan, Asanee Kawtrakul. **The Development of Web-based Annotation System for Thai Treebank**, In *Proceedings of the Seventh International Symposium on Natural Language Processing (SNLP2007)*, Bangkok, Thailand, 2007.

\*: Equal authorship

### Book chapter

Alexander Mertens, [Chat Wacharamanotham](#), Jan Hurtmanns, Martin Kronenbuerger, Peter H. Kraus, Arndt Hoffmann, Christopher Schlick, and Jan Borchers. **Model Based Processing of Swabbing Movements on Touch Screens to Improve Accuracy and Efficacy for Information Input of Individuals Suffering from Kinetic Tremor**. *Human – Computer Systems Interaction: Backgrounds and Applications 2: Advances in Intelligent and Soft Computing*, 98:503–522, August 2012.

### Work-in-progress articles and posters (peer-reviewed, non-archival)

Chia-Kai Yang and [Chat Wacharamanotham](#). 2018. **Alpscarf: Augmenting Scarf Plots for Exploring Temporal Gaze Patterns**. In Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems (CHI EA '18). ACM, New York, NY, USA, Paper LBW503, 6 pages. DOI: <https://doi.org/10.1145/3170427.3188490>

Krishna Subramanian, Johannes Maas, Michael Ellers, [Chat Wacharamanotham](#), Simon Voelker, and Jan Borchers. 2018. **StatWire: Visual Flow-based Statistical Programming**. In Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems (CHI EA '18). ACM, New York, NY, USA, Paper LBW104, 6 pages. DOI: <https://doi.org/10.1145/3170427.3188528>

Nur Al-huda Hamdan, Florian Heller, [Chat Wacharamanotham](#), Jan Thar, and Jan Borchers. 2016. **Grabrics: A Foldable Two-Dimensional Textile Input Controller**. In Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '16). ACM, New York, NY, USA, 2497–2503.

Florian Heller, Simon Voelker, [Chat Wacharamanotham](#), and Jan Borchers. 2015. **Transporters: Vision & Touch Transitive Widgets for Capacitive Screens**. In *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '15)*. ACM, New York, NY, USA, 1603–1608.

Sukeshini A. Grandhi, [Chat Wacharamanotham](#), Gina Joue, Jan O. Borchers, and Irene Mittelberg. 2013. **How we gesture towards machines: an exploratory study of user perceptions of gestural interaction**. In *CHI '13 Extended Abstracts on Human Factors in Computing Systems (CHI EA '13)*. ACM, New York, NY, USA, 1209-1214.

Alexander Mertens, [Chatchavan Wacharamanotham](#), Jan Hurtmanns, Niels Huck, Jörg Schulz, Jan Borchers, Christopher Schlick, and Martin Kronenbuerger. **SWABBING: Touchscreen-basierte Mensch-Rechner-Interaktion für Personen mit Tremorerkrankungen des Hand-Arm-Apparats (P438)**. In: *Abstract-CD des 84. Kongresses der Deutschen Gesellschaft für Neurologie 2011, 2*, Wiesbaden, pharma service, Hannover 2011, 1-2.

### alt.chi (peer-reviewed, non-archival)

Christian Corsten, [Chat Wacharamanotham](#), and Jan Borchers. 2013. **Fillables: everyday vessels as tangible controllers with adjustable haptics**. In *CHI '13 Extended Abstracts on Human Factors in Computing Systems (CHI EA '13)*. ACM, New York, NY, USA, 2129-2138.

### Demos (peer-reviewed, non-archival)

Philipp Wacker, [Chat Wacharamanotham](#), Daniel Spelmezan, Jan Thar, David A. Sánchez, René Bohne, and Jan Borchers. 2016. **VibroVision: An On-Body Tactile Image Guide for the Blind**. In *Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '16)*. ACM, New York, NY, USA, 3788-3791.

### Workshop and special interest group meetings, as organizer (peer-reviewed, non-archival)

[Chat Wacharamanotham](#), Matthew Kay, Steve Haroz, Shion Guha, and Pierre Dragicevic. 2018. **Special Interest Group on Transparent Statistics Guidelines**. In *Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems (CHI EA '18)*. ACM, New York, NY, USA, Paper SIG08, 4 pages. DOI: <https://doi.org/10.1145/3170427.3185374>

Matthew Kay, Steve Haroz, Shion Guha, Pierre Dragicevic, and [Chat Wacharamanotham](#). 2017. **Moving Transparent Statistics Forward at CHI**. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '17)*. ACM, New York, NY, USA, 534-541. DOI: <https://doi.org/10.1145/3027063.3027084>

### Workshop position papers (peer-reviewed, non-archival)

[Chat Wacharamanotham](#), Dennis Kehrig, Alexander Mertens, Christopher Schlick, and Jan Borchers. **Designing a Touchscreen Web Browser for People with Tremors**. In *CHI 2013 Workshop on Mobile Accessibility*, Paris, France, April 2013.

Tongyan Ning, Jörg Müller, Robert Walter, Gilles Bailly, [Chat Wacharamanotham](#), Florian Alt, and Jan Borchers. **No Need to Stop: Menu Techniques for Passing by Public Displays**. In *CHI 2011 Workshop on Large Displays in Urban Life: from Exhibition Halls to Media Facades*, Vancouver, Canada, May 2011.

[Chatchavan Wacharamanotham](#), Jonathan Meyer, Jonathan Diehl, and Jan Borchers. **The Interactive Bracelet: An input device for bimanual interaction**. In *Mobile HCI 2010 Workshop on Ensembles of On-Body Devices*, Lisbon, Portugal, September 2010.

### Doctoral consortium (juried, non-archival)

[Chat Wacharamanotham](#). 2014. **Making bare hand input more accurate**. In *CHI '14 Extended Abstracts on Human Factors in Computing Systems (CHI EA '14)*. ACM, New York, NY, USA, 307-310.

### Theses

[Chatchavan Wacharamanotham](#). **Drifts, Slips, and Misses: Input Accuracy for Touch Surfaces**. Doctoral Thesis, RWTH Aachen University, Aachen, Germany, February 2016.

[Chatchavan Wacharamanotham](#). **Using semantic web technologies for data update**, Master's Thesis, School of Informatics, University of Edinburgh, 2009.

[Chatchavan Wacharamanotham](#). **A study of substring search in massive databases**, Bachelor's Thesis, Faculty of Science, Chulalongkorn University, 2005.