

# Christian Remy

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## Curriculum Vitae

(as of May 23, 2018)

### Research Areas and Interests

Sustainable HCI, sustainable interaction design, ubiquitous computing, HCI design patterns, HCI for development, issues of evaluation, design and creativity, interactive technologies.

### Education and Work Experience

- 02/2018 – present **Assistant professor**, School of Communication and Culture, Department of Digital Design and Information Studies, Aarhus University, Denmark.
- 03/2017 – 01/2018 **Postdoctoral researcher**, People and Computing Lab, Department of Informatics, University of Zurich, Switzerland.
- 12/2010 – 02/2017 **Ph.D. student**, People and Computing Lab, Department of Informatics, University of Zurich, Switzerland.  
Dissertation: Incorporating Sustainable HCI Research into Design Practice  
Advisors: Elaine May Huang, Eli Blevins, distinction: summa cum laude
- 10/2003 – 07/2010 **Diplom Informatik**, RWTH Aachen University, Germany.  
Degree: Diplom-Informatiker (equiv. to M.Sc.), grade: 1.3 (equiv. to GPA 3.7/4.0)  
Thesis: A Pattern Language for Interactive Tabletops in Collaborative Workspaces  
Advisors: Jan Borchers, Malte Weiß, and Martina Ziefle, grade: 1.0 (highest grade)

### Publications

#### Book Chapters

- (BC2) Christian Remy and Elaine M. Huang. **Communicating SHCI Research to Practitioners and Stakeholders**. In: *Digital Technology and Sustainability: Acknowledging Paradox, Facing Conflict, and Embracing Disruption*, Routledge, Abingdon-on-Thames, UK, p. 129 – 139, 2017.
- (BC1) Christian Remy and Elaine M. Huang. **Addressing the obsolescence of end-user devices: Approaches from the field of sustainable HCI**. In: *ICT Innovations for Sustainability*, Springer, Heidelberg/New York, p. 257 - 267, 2015.

#### Conference Papers and Notes

- [C10] Christian Remy, Oliver Bates, Vanessa Thomas, and Matthew Broadbent. **Sustainability... it's just not important. The Challenges of Academic Engagement with Diverse Stakeholders**. In *ICT4S' 18: Proceedings of the 5th International Conference on ICT for Sustainability*, Toronto, Canada, May 2018 (to appear).
- [C9] Christian Remy, Oliver Bates, Alan Dix, Vanessa Thomas, Mike Hazas, Adrian Friday, and Elaine M. Huang. **Evaluation beyond Usability: Validating Sustainable HCI Research**. In *CHI' 18: Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*, Montreal, Québec, Canada, April 2018 (to appear).

- [C8] Vanessa Thomas, Christian Remy, and Oliver Bates. **The Limits of HCD: Reimagining the Anthropocentricity of ISO 9241-210.** In *LIMITS '17: Third Workshop on Computing within Limits*, Santa Barbara, California, USA, 2017.
- [C7] Christian Remy, Oliver Bates, Vanessa Thomas, and Elaine M. Huang. **The Limits of Evaluating Sustainability.** In *LIMITS '17: Third Workshop on Computing within Limits*, Santa Barbara, California, USA, 2017.
- [C6] Vanessa Thomas, Christian Remy, Mike Hazas, and Oliver Bates. **Identifying Promising Objectives for a Sustainable HCI Pattern Language.** In *CHI '17: Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems*, Denver, Colorado, USA, 2017. **Honorable mention award (top 5%)**
- [C5] Christian Remy, Silke Gegenbauer, and Elaine M. Huang. **Bridging the Theory-Practice Gap: Lessons and Challenges of Applying the Attachment Framework for Sustainable HCI Design.** In *CHI'15: Proc. of the 33rd Annual ACM Conference on Human Factors in Computing Systems*, p. 1305-1314, Seoul, Korea, 2015.
- [C4] Christian Remy and Elaine M. Huang. **Addressing the Obsolescence of End-User Devices: Approaches from the Field of Sustainable HCI.** In *ICT4S '14: Conference on ICT for Sustainability*, Stockholm, Sweden, 2014.
- [C3] Christian Remy, Sheetal Agarwal, Arun Kumar, and Saurabh Srivastava. **Supporting voice content sharing among underprivileged people in urban India.** In *INTERACT '13: Proceedings of the 14th IFIP TC13 Conference on Human-Computer Interaction*, Cape Town, South Africa, September 2013.
- [C2] Malte Weiss, Christian Remy, and Jan Borchers. **Rendering physical effects in tabletop controls.** In *CHI '11: Proceedings of the twenty-ninth annual SIGCHI conference on Human factors in computing systems*, pages 3009–3012, Vancouver, BC, Canada, 2011.
- [C1] Christian Remy, Malte Weiss, Martina Ziefle, and Jan Borchers. **A Pattern Language for Interactive Tabletops in Collaborative Workspaces.** In *EuroPLoP '10: Proceedings of the 15th European Conference on Pattern Languages of Programs*, pages (C3)1–47, Irsee Monastery, Germany, July 2010.

#### Journal Articles

- [J3] Christian Remy and Elaine M. Huang. **Limits and sustainable interaction design: Obsolescence in a future of collapse and resource scarcity.** In *First Monday, Volume 20, Number 8, Special Issue "Limits '15"*, 2015.
- [J2] Oliver Bates, Vanessa Thomas, and Christian Remy. **Doing Good in HCI: Can We Broaden Our Agenda?** In *ACM interactions* 24, 5 (2017).
- [J1] Christian Remy. **Taking a note from marketing research in sustainable HCI.** In *ACM interactions* 20, 3 (2013).

#### Organized Workshops

- [O2] Christian Remy, Oliver Bates, Jennifer Mankoff, and Adrian Friday. **Special Interest Group: Evaluating HCI Research beyond Usability.** In *CHI '18: Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems*, Montreal, Québec, Canada, April 2018 (to appear).

- [O1] Oliver Bates, Vanessa Thomas, Christian Remy, Lisa Nathan, Samuel Mann, and Adrian Friday. **Special Interest Group: The Future of HCI and Sustainability: Championing Environmental and Social Justice.** In CHI '18: Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems, Montreal, Québec, Canada, April 2018 (to appear).

#### Doctoral Consortium

- [DC1] Christian Remy. **Addressing Obsolescence of Consumer Electronics through Sustainable Interaction Design.** In *CHI EA '15: Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems* (Doctoral Consortium), pages 227-230, Seoul, Korea, 2015.

#### Workshop Papers

- [W4] Christian Remy and Elaine M. Huang. **Identifying Promising Objectives for a Sustainable HCI Pattern Language.** In *CHI '16: Position paper for the Design patterns, principles, and strategies for Sustainable HCI workshop*, San Jose, CA, USA, 2016.
- [W3] Christian Remy and Elaine M. Huang. **Limits and Sustainable Interaction Design: Obsolescence in a Future of Collapse and Resource Scarcity.** In *LIMITS '15: First Workshop on Computing within Limits*. Irvine, California, USA, 2015.
- [W2] Christian Remy and Elaine M. Huang. **Tailoring sustainable HCI design knowledge to design practice.** In *CHI '14: Position paper for the "What have we learned? A SIGCHI HCI & Sustainability community" workshop*, Toronto, AL, Canada, 2014.
- [W1] Christian Remy and Elaine M. Huang. **The complexity of information for sustainable choices.** In *CHI '12: Position paper for the CHI 2012 workshop Simple, Sustainable Living*, Austin, TX, USA, 2012.

#### Posters

- [P2] Sheetal K. Agarwal, Jyoti Grover, Arun Kumar, Monia Puri, Meghna Singh, Christian Remy. **Visual Conversational Interfaces to Empower Low-Literacy Users.** In *INTERACT '13: Extended Abstracts of the 14th IFIP TC13 Conference on Human-Computer Interaction*, Cape Town, South Africa, 2013.
- [P1] Christian Remy, Malte Weiss, and Jan Borchers. **A pattern language for interactive surfaces in collaborative workspaces.** In *ITS '09: Extended Abstracts of ACM International Conference on Interactive Tabletops and Surfaces*, Banff, AL, Canada, 2009.

#### Theses

- [T2] Christian Remy. **Incorporating Sustainable HCI Research into Design Practice.** Doctoral thesis, University of Zurich, Zurich, Switzerland, 2017.
- [T1] Christian Remy. **A pattern language for interactive tabletops in collaborative workspaces.** Diploma thesis, RWTH Aachen University, Aachen, Germany, 2010.

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#### Supervised Theses

Wanjun Chu. **StickyDesignSpace: Incorporating the Attachment Framework into Product Design Practice.** Uppsala University, Disciplinary Domain of Science and Technology, Earth Sciences, Department of Earth Sciences, 2015.

Jessica Hediger. **InspiredDesign: A Brainstorming Support Tool for Sustainable Interaction Design.** University of Zurich, Faculty of Economics, 2015.

Simon Kaeser. **Improving the Mobile Bitcoin Payment System (MBPS)**.  
University of Zurich, Faculty of Economics, 2014. (Co-supervisor)

## Experience and Service

- 04/2018 **Invited guest lecturer**, *Sustainable Futures*, IT University Copenhagen.  
Guest lecture titled “E-waste, Obsolescence, and Sustainable HCI”.
- 2018 **Program committee member**, Fourth Annual ACM *LIMITS on Computing Workshop (LIMITS 2018)*, Toronto, AL, Canada.
- 05/2017 **Session chair**, *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) 2017*, Denver, Colorado, USA.  
Moderating presentations in the session “Sustainability and Public Service”.
- 04/2017 **Invited guest lecturer**, *Sustainable Futures*, IT University Copenhagen.  
Guest lecture titled “E-waste, Obsolescence, and Sustainable HCI”.
- 03/2016 **Invited guest lecturer**, *Sustainable Futures*, IT University Copenhagen.  
Guest lecture titled “E-waste, Obsolescence, and Sustainable HCI”.
- 09/2014 **Invited guest lecturer**, *Sustainability and Media Technology*, KTH Stockholm.  
Guest lecture about the state of obsolescence-related research in sustainable HCI.
- 08/2014 **Invited panel speaker**, *Sustainable Interaction Design* panel, Conference on ICT for Sustainability (ICT4S), Stockholm, Sweden.
- 09/2013 **Student volunteer chair**, *The 2013 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2013)*, Zurich, Switzerland.  
Selection, briefing, and supervision of 41 student volunteers.  
Creation of the *SV Doodle* for simplified scheduling (published at [hcaac.de/svdoodle](http://hcaac.de/svdoodle))
- 04/2013 **Student volunteer**, *ACM SIGCHI Conference on Human Factors in Computing Systems is the premier international conference on human-computer interaction (CHI) 2013*, Paris, France.
- 02/2013 **Member of the local organizing team**, *ICT4S 1<sup>st</sup> International Conference on Information and Communication Technologies for Sustainability*, Zurich. Planning and organization of the Greenhackathon, a full-day sustainability-themed programming event at the University of Zurich.
- 06/2012 – 08/2012 **Intern**, *IBM Research India*, New Delhi, India.  
Planning, development, and evaluation of a smartphone application for underprivileged users. Conducting field studies in New Delhi’s urban areas with low-literacy, low-income participants to evaluate both the feature phone version and smartphone application version of a voice content sharing service.
- 09/2011 **Student volunteer**, *Landscape of User Experience in Switzerland (LUXS) 2011*, Zurich, Switzerland.
- 07/2011 **Co-organization**, *2011 IFI Summer School*, University of Zurich.  
Ph.D. Summer School on Interaction, Visualization and Ubiquitous Computing.
- 11/2009 **Student volunteer**, *Interactive Tabletops and Surfaces (ITS) 2009 conference*, Banff, Canada.

09/2008 – 10/2008 **Intern, Universidade Estadual de Campinas, São Paulo, Brazil.**  
Evaluation of a remote robotics application and development of a proof-of-concept SIP communication application in Java, part of a project to bring telemedicine to Brazilian rural areas.

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## Teaching

- 09/2017 – 12/2017 **Course instructor, People-Oriented Computing, University of Zurich.**  
Introductory class for first semester BSc students at the University of Zurich.  
Recruiting and instructing teaching assistants; preparing lectures and exercises; giving 5 of the 12 lectures; general supervision of administrative responsibilities for the class.
- 02/2017 – 06/2017 **Course instructor, HCI seminar, University of Zurich.**  
Weekly discussions about seminal papers in HCI.  
Grading of students' response papers, guiding discussions.
- 02/2016 – 06/2016 **Teaching assistant, HCI seminar, University of Zurich.**  
Weekly discussions about seminal papers in HCI.  
Grading of students' response papers, guiding discussions.
- 09/2015 – 12/2015 **Teaching assistant, Sustainable HCI seminar, University of Zurich.**  
Weekly discussions about recent topics in Sustainable HCI.  
Grading of students' response papers, guiding discussions.
- 02/2015 – 06/2015 **Teaching assistant, HCI seminar, University of Zurich.**  
Weekly discussions about seminal papers in HCI.  
Grading of students' response papers, guiding discussions.
- 09/2014 – 12/2014 **Course instructor, Sustainable HCI seminar, University of Zurich.**  
Weekly discussions about recent topics in Sustainable HCI.  
Grading of students' response papers, guiding discussions.
- 02/2014 – 06/2014 **Teaching assistant, Methods in Human-Centered Computing, University of Zurich.**  
Advanced HCI class for master's students at the University of Zurich and ETH Zurich.  
Advising and grading of students' assignments.
- 09/2013 – 12/2013 **Teaching assistant, Human-Computer Interaction, University of Zurich.**  
Introduction to HCI class for master's students at the University of Zurich.  
Advising and grading of students' assignments.
- 02/2013 – 06/2013 **Teaching assistant, HCI seminar, University of Zurich.**  
Weekly discussions about seminal papers in HCI.  
Grading of students' response papers, guiding discussions.
- 09/2012 – 12/2012 **Teaching assistant, Human-Computer Interaction, University of Zurich.**  
Introduction to HCI class for master's students at the University of Zurich.  
Advising and grading of students' assignments.
- 02/2012 – 06/2012 **Teaching assistant, Methods in Human-Centered Computing, University of Zurich.**  
Advanced HCI class for master's students at the University of Zurich and ETH Zurich.  
Advising and grading of students' assignments, occasional lecturing.
- 09/2011 – 12/2011 **Teaching assistant, Sustainable HCI seminar, University of Zurich.**  
Weekly discussions about recent topics in Sustainable HCI.  
Grading of students' response papers, guiding discussions.

02/2011 – 06/2011

**Teaching assistant**, *Methods in Human-Centered Computing*, University of Zurich.

Advanced HCI class for master's students at the University of Zurich and ETH Zurich. Advising and grading of students' assignments, occasional lecturing, assisted in curriculum's activity planning.

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## Reviewing

**ToCHI**: ACM Transactions on Computer Human Interaction

**DIS 2018**, Designing Interactive Systems 2018 conference

One *Special Recognition* award for exceptional review

**CHI 2018**, ACM SIGCHI Conference on Human Factors in Computing Systems

Three *Special Recognition* awards for exceptional reviews

**Resources, Conservation & Recycling**, Elsevier Journal

**IMWUT 2017**, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies

**INTERACT 2017**, 16<sup>th</sup> IFIP TC.13 Conference on Human-Computer Interaction

**LIMITS 2017**, Third Workshop on Computing within Limits

**DIS 2017**, Designing Interactive Systems 2017 conference

One *Special Recognition* award for exceptional review

**CHI 2017**, ACM SIGCHI Conference on Human Factors in Computing Systems

Two *Special Recognition* awards for exceptional reviews

**DIS 2016**, Designing Interactive Systems 2016 conference

**CHI 2016**, ACM SIGCHI Conference on Human Factors in Computing Systems

Two *Special Recognition* awards for exceptional reviews

**IUI 2015**, ACM Intelligent User Interfaces 2015 conference

**C&C 2015**, ACM Creativity & Cognition 2015 conference

**INTERACT 2015**, 15<sup>th</sup> IFIP TC13 Conference on Human-Computer Interaction

**CHI 2015**, ACM SIGCHI Conference on Human Factors in Computing Systems

Two *Special Recognition* awards for exceptional reviews

**IJHCS**, International Journal of Human-Computer Studies

**ICT Innovations for Sustainability** (book chapter review)

**CHI 2014**, ACM SIGCHI Conference on Human Factors in Computing Systems

Two *Special Recognition* awards for exceptional reviews

**INTERACT 2013**, 14<sup>th</sup> IFIP TC13 Conference on Human-Computer Interaction

**CHI 2013**, ACM SIGCHI Conference on Human Factors in Computing Systems

**ACE 2012**, Advances in Computer Entertainment Conference

**CHI 2012**, ACM SIGCHI Conference on Human Factors in Computing Systems

**MCIS 2011**, The 6<sup>th</sup> Mediterranean Conference on Information Systems

## Project Highlights

### **Support for sustainable design that encourages longer use of technology products.**

Create support for designers of technology products to provide them with assistance in the design of new products that encourage longer use and lead to a decrease of the rapid technology replacement cycle. Conducting qualitative research to understand existing practices surrounding the design of said products with the help of an established sustainable interaction design framework, developing and evaluating applications with product designers to incorporate said framework into design practice.

### **Voice content sharing among underprivileged users in Urban India.**

Planning, development, and evaluation of a smartphone application for underprivileged users. Conducting field studies in New Delhi's urban areas with low-literacy, low-income participants to evaluate both the feature phone version and smartphone application version of a voice content sharing service.

### **Rendering physical effects in tabletop controls.**

Simulation of physical properties such as weight, friction, spring resistance, and detents for passive tangibles using electromagnetic actuation on a tabletop. Development and conducting of experiments and user tests.

### **Tabletops patterns.**

Development of 22 HCI design patterns for interactive surfaces. In collaboration with tabletop experts and practitioners, submitted to EuroPLop 2010 as full paper with shepherding by a design pattern and tabletop expert and evaluated in a Writers' Workshop.

## Skills

Technical skills

C++, Qt, Java, Android, PHP, SQL, HTML, CSS, JQuery, LaTeX

Languages

German (native tongue), English (fluent), Danish (basics)