



KARIN NIEMANTSVERDRIET

Born: February 11, 1988.

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WORK EXPERIENCE

PhD on Interaction with Shared Systems

Department of Industrial Design, Eindhoven University of Technology, in collaboration with Koninklijke Philips N.V.

March 2014 – September 2018

In this PhD research, I investigated how to design interactions with everyday IoT systems that are shared in use – that is, where an interaction by one person can influence others. The research was qualitative, explorative, and design-oriented. Its main contributions are the *exploration-action model* (a model describing how people interact with systems in situations of shared use) and the *DASS framework* (a tool that can be used when designing for awareness).

Responsibilities: Managing, planning, and executing the research; Proposing educational projects and coaching students working on interaction design for shared use and lighting interaction; Invited lectures in a variety of undergrad and graduate courses.

Visiting Researcher

IBM Research, Yorktown Heights, NY, USA

July – October 2016

Three month research collaboration with Thomas Erickson on identifying opportunities for new meeting support technologies

Internship Design Strategy

VanBerlo Studios, Eindhoven

August 2009 – December 2009

Internship about trend forecasting, brand identity development, and strategic design.

Communication & PR assistant

Department of Industrial Design, TU/e
2008 – 2014

Responsibilities: Presenting the department to future students and research visitors; Organizing workshops during educational days; Design, curation, and maintenance of the permanent departmental exhibition; Being client and coach for high school students for the subject Onderzoek & Ontwerpen

Exhibition Production Assistant

Design United (joint research center for design of University of Technology Delft, Eindhoven University of Technology, and the University of Twente).

2011 – 2013

Exhibitions: Design United (Dutch Design Week 2011), Design Changes (Dutch Design Week 2012) and Design changes Design (Dutch Design Week 2013)

Responsibilities: Assisting in concept development, curating of projects; Communication with exhibitors and exhibition designers.

Study Information Officer

Central Communication Team, TU/e

2008 – 2013

Responsibilities: Presenting the university to future students.

EDUCATION

Master Industrial Design

Eindhoven University of Technology
September 2011 – January 2014
MSc degree, *Cum Laude*

Graduation Project: A research-through-design project investigating how to design for enhanced product attachment in physical-digital products.

Extra minor in Art History

University of Utrecht
August 2010 - January 2011

Bachelor Industrial Design

Eindhoven University of Technology
September 2007 – July 2010
BSc degree

Graduation Project: Designing a new relational gift for the 2011 TU/e lustrum.

Pre-university Education (Athenaeum)

Pleincollege Eckart, Eindhoven
2000 – 2006

Profile: Natuur & Techniek

Extra Subjects: Biology; Arts & Art History

EXHIBITIONS

UnderAir, at Mind The Story

Dutch Design Week 2017, Klokgebouw
Eindhoven, October 2017

Memento, at Royal Showpieces

Dutch Royal Palace Het Loo, Apeldoorn, The Netherlands, April – October 2014

Prospera, at ID'13

Dutch Design Week 2013, Main Building TU/e
October 2013

The New Machine Era, at STRP

STRP Biennale 2013, Klokgebouw Eindhoven
February 2013

Shift, at GLOW

GLOW Light festival 2012, Eindhoven, The Netherlands, November 2012

Light through Culture

METU Art Festival, Ankara, Turkey, April 2012
Dutch Technology Week 2012, Main Building TU/e, June 2012
Dutch Design Week 2012, Video Lab Strijp-S
Eindhoven, October 2012

LANGUAGES

Dutch, native language

English, full professional proficiency

Spanish, professional proficiency, DELE B2.3

OTHER PROFESSIONAL EXPERIENCE

Venue chair of TEI16 Conference

The tenth ACM International annual conference on Tangible, Embedded and Embodied Interaction (TEI), held February 14-17 2016 in Eindhoven.

On a voluntary basis

Responsibilities: Planning and managing of venues; Food; Social events; Transportation between locations; Coordination with chairs.

Organization of FAB7, in Lima, Peru

Fab Lab Lima, Peru, in collaboration with the Center for Bits and Atoms of the MIT.
February - August 2011

On a voluntary basis

Responsibilities: Local organization; Planning of venues; Sponsoring; Contact with MIT; Communication & PR

English teaching in Nicaragua

High school Instituto Filemon Riviera Quintero, Chinandega's youth prison, and primary school Villa Catalina.

July 2006 - January 2007

On a voluntary basis

PUBLICATIONS

PEER-REVIEWED CONFERENCE CONTRIBUTIONS

Karin Niemantsverdriet, Thomas van de Werff, Harm van Essen, Berry Eggen (2018) **Share and Share Alike? Social Information and Interaction Style in Coordination of Shared Use.** *International SIGCHI Conference on Computer-Human Interaction (CHI'18)*

Karin Niemantsverdriet and Thomas Erickson (2017) **Recurring Meetings: An Experiential Account of Repeating Meetings in a Large Organization.** *Proceedings of the ACM on Human-Computer Interaction*, volume 1, issue CSCW, Article 84, 17 pages.

Thomas van de Werff, Karin Niemantsverdriet, Harm van Essen, Berry Eggen (2016) **Evaluating Interface Characteristics for Shared Lighting Systems in the Office Environment.** In *Proceedings of the 2017 Conference on Designing Interactive Systems (DIS'17)*, ACM, New York, NY, USA, p. 209-220.

Karin Niemantsverdriet, Mendel Broekhuizen, Harm van Essen, Berry Eggen (2016) **Designing for Multi-user Interaction in the Home Environment: Implementing Social Translucence.** In *Proceedings of the 2016 Conference on Designing Interactive Systems (DIS'16)*, ACM, New York, NY, USA, p. 1302-1314.

Thomas van de Werff, Karin Niemantsverdriet, Harm van Essen, Berry Eggen (2016) **Designing Multi-User Lighting Interfaces: Four Strategies to Implement Social Translucence.** In *Companion Proceedings of the 2016 Conference on Designing Interactive Systems (DIS'16)*, ACM, New York, NY, USA, p. 137-140.

Karin Niemantsverdriet and Maarten Versteeg (2016). **Interactive Jewellery as Memory Cue: Designing a Sound Locket for Individual Reminiscence.** In *Companion Proceedings of the TEI '16: Tenth International Conference on Tangible, Embedded, and Embodied Interaction (TEI'16)*. ACM, New York, NY, USA, p. 532-538.

Karin Niemantsverdriet and Joep Frens (2015). **Design for Attachment: an explorative search for product qualities that enhance our emotional bond with digital products.** In *Proceedings of the 9th International Conference on Design and Semantics of Form and Movement*, Milan, Italy, p. 57-65.

JOURNAL PUBLICATIONS

Karin Niemantsverdriet, Harm van Essen, Berry Eggen (2017) **A Perspective on Multi-User Interaction Design Based on an Understanding of Domestic Lighting Conflicts.** *Personal and Ubiquitous Computing*, volume 21, issue 2, p. 371-389. DOI: <https://doi.org/10.1007/s00779-016-0998-5>

Saskia Bakker and Karin Niemantsverdriet (2016) **The interaction-Attention Continuum: Considering Various Levels of Human Attention in Interaction Design.** *International Journal of Design*, volume 10, issue 2, p.1-14.

PATENT APPLICATIONS

Karin Niemantsverdriet, Harm van Essen, Berry Eggen (2017). EP3226660A1 - **A computer implemented method for creating a dynamic light effect and controlling a lighting device according to the dynamic light effect.**

Karin Niemantsverdriet, Harm van Essen, Berry Eggen (2017). WO2017167675A1 - **A controller for controlling a group of lighting devices and a method thereof.**

Thomas Erickson, Bin Xu, Jason B. Ellis, Karin Niemantsverdriet (2017). YOR920161821US1 - **A system and method for displaying the simulated gazes of multiple remote participants to participants collocated in a meeting space.**

INFORMAL CONFERENCE CONTRIBUTIONS

Karin Niemantsverdriet (2016) **Multi-User Interaction with Domestic Lighting Systems.** In *Companion Proceedings of the 2016 Conference on Designing Interactive Systems (DIS EA '16)*, ACM, New York, NY, USA, p. 43-44.

Karin Niemantsverdriet, Johanna Kint, Paul Groenendaal and Dennis de Klein (2012). **Light through culture: findings of a two-week intercultural and multidisciplinary workshop on the expression of culture through an interactive light installation.** Presented at *Creative design for interdisciplinary project in cultural heritage (CDCH)*, October 4, 2012, Innsbruck, Austria.