

Janin Koch



My research interest lies in collaborative designing systems. In my work, I aim to define, study and evaluate human-machine interaction for creating valuable designs together with intelligent machines. Taking this human-centered approach, I use knowledge from psychology, design and AI to enable systems to act on a human equal stand. I believe that computers and humans have distinct skills to add to such a collaboration.

Academic Publications

Surfing for Inspiration:

Digital Inspirational Material in Design Practice

Koch, J./ Laszlo, M. / Lucero, A./ Oulasvirta, A. | 2018
Proceedings of the Design Research Society 2018.

Group Cognition and Collaborative AI

Koch, J./ Oulasvirta, A. | 2018

Book chapter, in *Human and Machine Learning: Visible, Explainable, Trustworthy and Transparent*, Springer 2018 (in press)

Design implications for Designing with a Collaborative AI

Koch, J. | 2017

Position Paper, AAAI Spring Symposium on User Experience of Machine Learning, 2017

Computational Layout Perception using Gestalt Laws

Koch, J./ Oulasvirta, A. | 2016

Extended Abstract, ACM Conference on Human Factors in Computing Systems (CHI) 2016

Learning Layout Design: Challenges and Opportunities

Koch, J./ Weir, D./ Oulasvirta, A. | 2016

Workshop Paper, CHI'16

Volunteer Work

ACM XRDS Digital Content Editor | 2017-ongoing

Managing digital content contribution, Content reviewing, contributing to the XRDS magazine

SIGCHI Student Volunteer | 2017

Defining strategies for increasing public awareness of SIGCHI contributions

Awards / Grants

HPY:N TUTKIMUSSÄÄTIÖ | 2017

Personal research funding of 3000€ for research on Adaptive design systems

Education

PhD student in Human-Computer Interaction

User Interface Group,

Aalto University, FI | Nov.2015-ongoing

Research Topic: Interactive Design Optimization

M.Sc. Business Information Systems

Technical University Darmstadt, DE | 2011-2014

Business Major: Marketing & HR Management

IT Majors: Human-Computer Interaction

Final Grade: 1.27 (with honors)

Study Abroad - Human Computer Interaction

Royal Institute of Technology, SE | 2013-2014

Major: Human Computer Interaction

B.Sc. Business Information Systems

University Magdeburg, DE | 2007-2011

Business focus: Business, Finance and Law

IT focus: Data Mining & Decision Support Systems

Final Grade: 1.6

Study Abroad - Business Administration

Fairleigh Dickinson University Vancouver, CA | 2010

Major: Business Administration

Theses

Final degree project

Royal Institute of Technology, SE | 2014

Title: "Bio-Data Logging in Stress Treatment"

Grade: 1.0

Master thesis

Technical University Darmstadt, DE | 2013

Title: "Information and network benefits of social media platforms - An analysis of teenager's usage patterns on Facebook"

Grade: 1.0

Bachelor thesis

University Magdeburg, DE | 2011

Title: "The Impact of Outlier Detection Methods on the Quality of Data Mining Models"

Grade: 1.3

German grading system: 1-excellent ... 4-sufficient