

Thomas Kosch

SCIENTIST IN HUMAN-COMPUTER INTERACTION · MAKER · UX RESEARCHER · DATA ANALYST

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Summary

Thomas Kosch is a professor at the Humboldt University of Berlin. His research focuses on AI-driven sensing to anticipate user states, behavior, and actions. He is experienced in designing user studies, quantitative and qualitative methods, machine learning, and prototyping. He successfully conducted and led research projects within scientific and industrial councils. In addition, he is regularly involved in program and organizational committees of top-tier human-computer interaction events at national and international levels.

Education

Humboldt University of Berlin

Germany, Berlin

PROFESSOR

October 2022 - Present

- Pervasive user sensing to predict user states, behavior, and actions.
- Design of physiological interaction and physiologically-driven research methods.
- Evaluation of adaptive user interfaces.
- Meta HCI research.

Utrecht University

Utrecht, NL

PROFESSOR

April 2022 - September 2022

- Supervision of PhD and university students.
- Funding acquisition.

TU Darmstadt

Darmstadt, DE

POSTDOC AT THE TELECOOPERATION LAB

July 2020 - March 2022

- Design and implementation of physiological user interfaces that augment human capabilities using mixed reality.

Ludwig-Maximilian University of Munich

Munich, DE

PH.D. STUDENT AT THE HUMAN-CENTERED UBIQUITOUS MEDIA GROUP

January 2016 - June 2020

- Thesis title: *Workload-Aware Systems and Interfaces for Cognitive Augmentation*.

Skills

Prototyping and Data Analysis Python (Signal Processing, Machine Learning, Statistics), Prototyping & Making (Electronics, 3D Printing)

User Experience Research User Study Design, User-Centric System Evaluation, Quantitative & Qualitative Methods

Physiological Computing Electroencephalography, Eye Tracking, Electrodermal Activity, Heart Rate, Electromyography

Project Management Requirements Analysis, Task Delegation, Structured Presentation and Communication of Research Results

Languages German (First Language), Polish (Professional), English (Professional), Japanese (Elementary), French (Elementary)

Writing

Author of Scientific Publications

International

SELECTED PUBLICATIONS

January 2016 - Present

- Kosch et al., "The Placebo Effect of Artificial Intelligence in Human-Computer Interaction" in *ACM Transactions on Computer-Human Interaction*, New York, NY, USA, 2022.
- Bethge et al., "VEmotion: Using Driving Context for Indirect Emotion Prediction in Real-Time" in *Proceedings of the 34th Annual ACM Symposium on User Interface Software and Technology*, New York, NY, USA, 2021.
- Schneegass et al., "BrainCoDe: Electroencephalography-Based Comprehension Detection During Reading and Listening" in *Proceedings of the CHI Conference on Human Factors in Computing Systems*, New York, NY, USA, 2020.
- Kosch et al., "One Does not Simply RSVP: Mental Workload to Select Speed Reading Parameters using Electroencephalography" in *Proceedings of the CHI Conference on Human Factors in Computing Systems*, New York, NY, USA, 2020.
- Kosch et al., "Identifying Cognitive Assistance with Mobile Electroencephalography: A Case Study with In-Situ Projections for Manual Assembly" in *Proceedings of the 10th ACM SIGCHI Symposium on Engineering Interactive Computing Systems*, New York, NY, USA, 2018.
- Kosch et al., "Your Eyes Tell: Leveraging Smooth Pursuit for Assessing Cognitive Workload" in *Proceedings of the CHI Conference on Human Factors in Computing Systems*, New York, NY, USA, 2018.
- Kosch et al., "Look into my Eyes: Using Pupil Dilation to Estimate Mental Workload for Task Complexity Adaptation" in *Proceedings of the CHI Conference Extended Abstracts on Human Factors in Computing Systems*, New York, NY, USA, 2018.
- A full publication list can be found under www.thomaskosch.com/index.php/publications