

Computer and
Information Science

Fachbereichs- kolloqium

Winter semester 2024/2025

Eye-Hand Symbiosis as a new interaction paradigm in HCI

Speaker and Title

Ken Pfeuffer (Aarhus University)

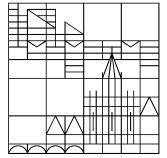
<https://kenpfeuffer.com/>

Time and Room

November 6th (Wednesday)

1:30pm - 3:00pm

ZT 1204 (Data Theater)



Abstract

Throughout the evolution of human-computer interfaces, from keyboards and mice to touchscreens and 3D gestures, most interfaces have been designed primarily for hand-based interaction. Recently, however, new interfaces that incorporate both eye and hand input have emerged, particularly in Virtual Reality (VR) headsets, offering an experience unlike anything seen before in the history of computing. In this talk, I will explore the evolution and scientific foundations of eye-hand interaction, along with recent advances and their potential impact on the future of human-computer interaction (HCI).

Speaker's Bio

Ken Pfeuffer is an Assistant Professor at Aarhus University, specializing in Human-Computer Interaction (HCI) with a focus on virtual (VR) and augmented reality (AR) and eye-tracking to explore the future of input and interfaces. He did his PhD at Lancaster University and postdoc at Bundeswehr University, with internships at Microsoft and Google Research. Ken's work, recognized with awards at top-tier venues like UIST, SUI, and CHI, has been highly influential, with companies like Apple/Meta incorporating concepts in their AR products.