

BACHELOR'S/MASTER'S THESIS/RESEARCH INTERNSHIP:

ALL ABOUT THE DESIGN: FACTORS INFLUENCING THE ADHERENCE TO WEARABLE DEVICES IN MEDICAL TRIALS

Background:

Wearable Technology, especially consumer wearables like smartwatches, play an increasing role in medical trials. They allow the longitudinal recording of various sensor data in free living conditions. This may help to gain a better understanding of diseases and treatment impact in the real world.



The quality of research and evaluations based on wearable data is dependent on the collected data's quality. Incomplete data, for example, because the participant does not want to wear the device, is a problem. Soft factors ("I prefer the color pink", "I dislike the design of the watch") can play a large factor in such studies but appear to be largely uninvestigated in literature.

This work aims to explore the effect of "soft factors" (such as look and feel of consumer wearables) on long-term usage, drop-out rates and study adherence.

Tasks:

- Literature review on adherence and soft factors w.r.t. wearable devices
- Design a study protocol (e.g. interviews, real-world study)
- Write thesis

Requirements:

- Good German skills
- Strong interest in Human-Computer Interaction (e.g. UI/UX Design) and Wearable Devices

Please send your CV, your transcript of records and 2-3 sentences about your motivation to:

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