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# One AI, Two Contexts — Rethinking AI-UX Across Phone and PC

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Gen AI chatbots often use the same interface across phone and desktop

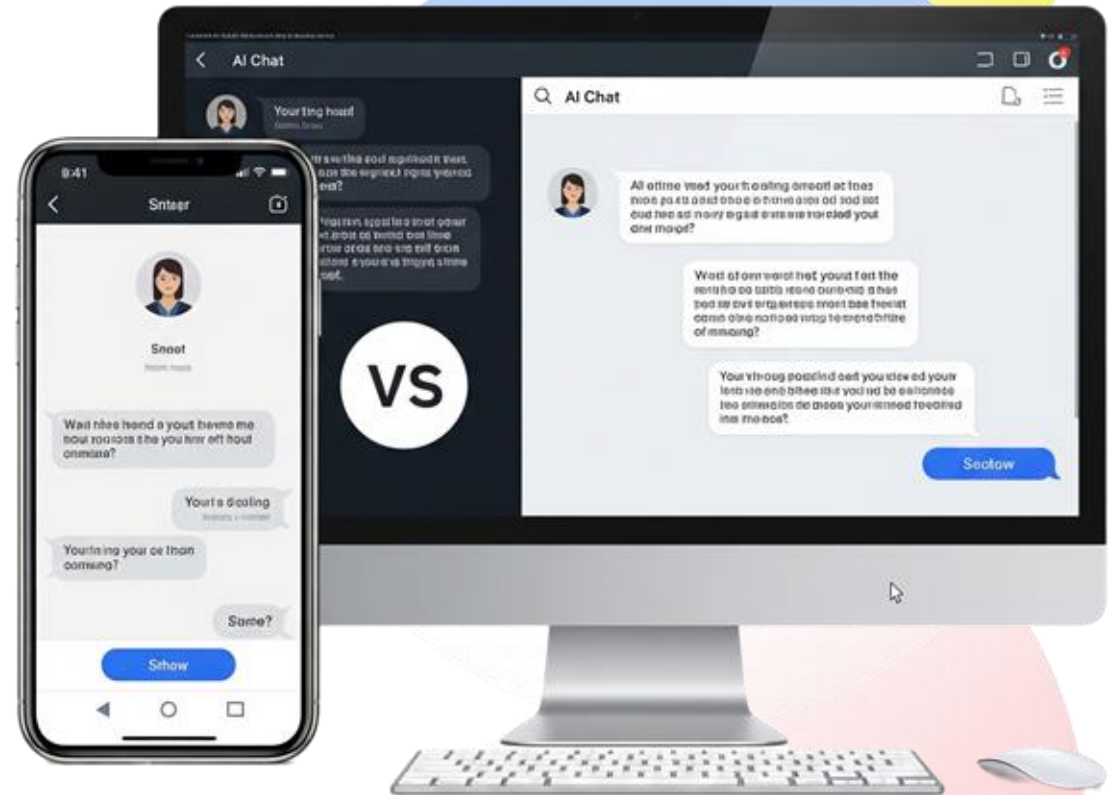
But device context may change:

- task type
- trust & verification behavior
- perceived AI persona

**Do users relate to and use the same AI differently on phone vs PC?**

**How should cross-device UI design reflect those differences?**

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# Background

LLM-powered chatbots like ChatGPT are used on both desktops & smartphones.

(Bröhl et al.,  
2018)

**Users use phones primarily for social connection but PCs for work**

(Vincent,  
2013)

**Users perceive phones as personalized social robots or emotional companions.**

(Tang &  
Hew, 2022)

**Users experience greater social connectedness using phone apps than PC apps.**

(Liao et al.,  
2023)

**Additionally, users pay lesser attention to information on their phones and show lower skepticism toward misinformation compared to PC use.**

# Method

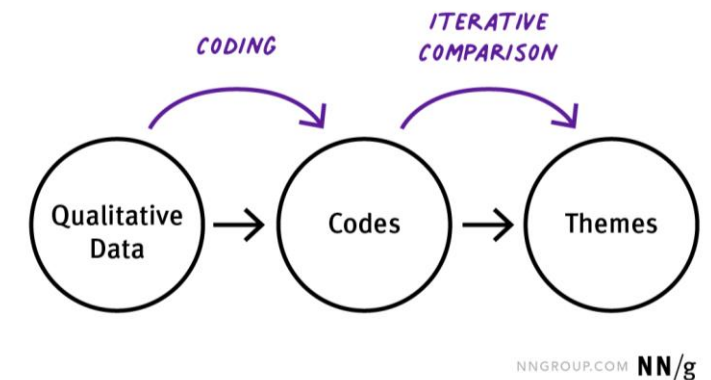
## Interview study (n=10)

Participant recruitment via Cloud Research Connect. Interview conducted on Zoom. Interviews conducted till we reached saturation.

Inclusion criteria: Have experience using platforms like ChatGPT, Claude on phone and PC.

Thematic analysis

### Thematic Analysis



### Participant Recruitment



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# Thematic Analysis

**Phone → personal, lightweight, in-the-moment tasks**

*“On my phone it feels like messaging a nerdy friend.”*

**Laptop → structured, professional, analytical work**

*“On the computer it’s more like a teacher or co-worker.”*

**Phones = skimming, fewer checks**

*“I don’t double-check unless it’s serious — on my phone it’s casual.”*

**Laptops = deeper reading & source checking**

*“On my computer I click sources — on my phone I just read and move on.”*

**Mobile personas suggest social proximity** but **emotional attachment was not explicit** in the data → possible **intimacy–skepticism gap**. A survey study is planned as the next step.

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# Design Takeaways

## **Support task migration across devices**

- “continue on desktop” feature, bookmarks, and resume-task reminders.

## **Acknowledge device-shaped personas**

- AI chatbot on phones = conversational & personal
  - AI chatbot on desktops = analytical & task-oriented
- opportunity for context-aware UX and task-support rather than uniform designs.

## **Design for trust on mobile**

- lighter-weight source previews, citation pop-outs, & verify-later reminders
  - reduce friction without burdening quick tasks.
  - Support skimming on phones without losing accuracy (key-points, expand-for-details, clearer formatting)
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# Exploratory Survey study - RQs (in-progress)

RQ1

## Uses and Persona

How does user interaction with LLM-based chatbots differ between mobile phones and desktop PCs, in terms of **use cases and perception of chatbot persona?**

RQ2

## Emotional Attachment

Are users more **emotionally attached** to their chatbots on their phones compared to PCs?

RQ3

## Susceptibility to AI Hallucinations

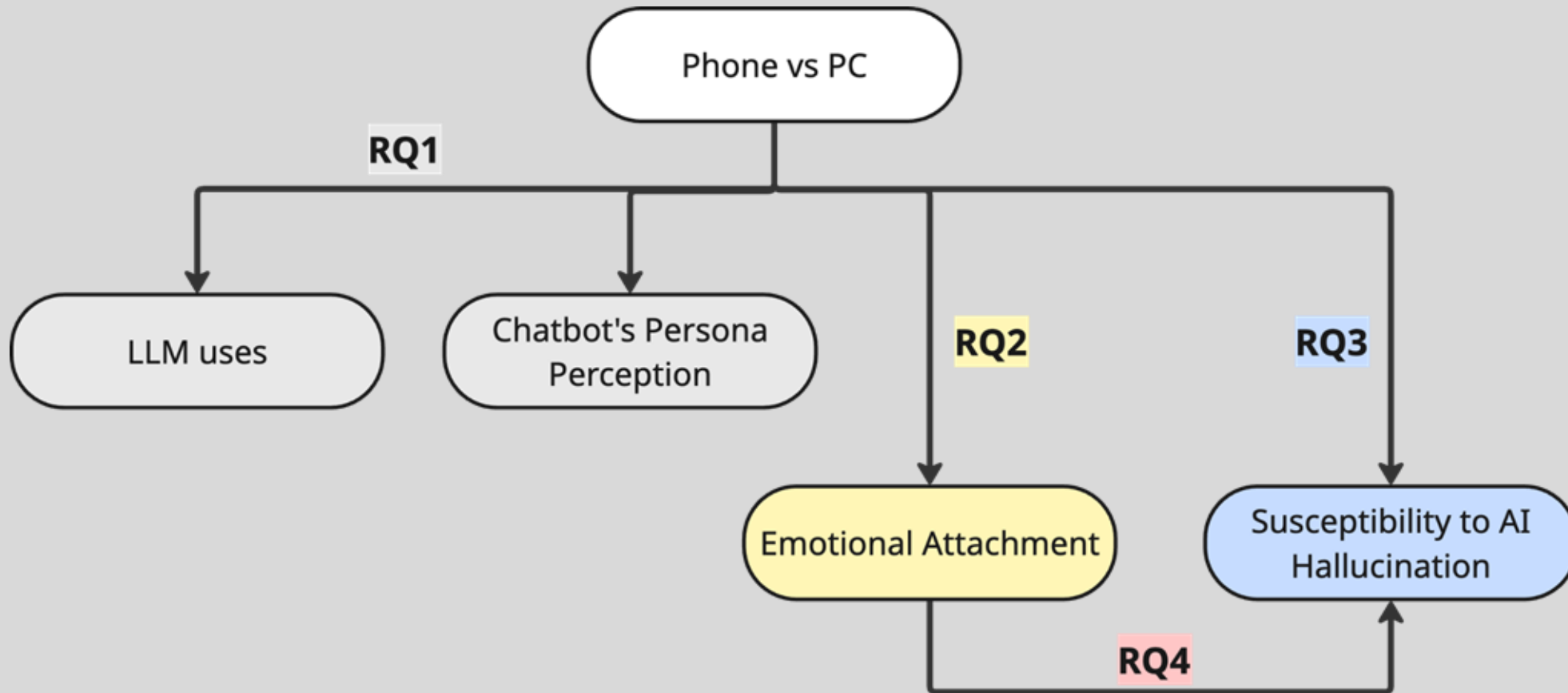
Are users more **susceptible to AI hallucinations** when interacting with LLMs on P vs PC?

RQ4

## Emotional Attachment -> Sus. to AI Hallucinations

Does this **emotional attachment** make **users less vigilant** toward AI response?

# Visual RQs for Exploratory Survey study (in-progress)





# The End.

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