Theme	Case Study (CS) and Its Research Objectives	Study Method	Participant and Physical Setup	Evaluation Metrics
Personalization and Social Framing	CS1 [56]: Users' expectations for assistant personality and personalization	Storyboard- based interviews	15 participants, tech familiarity; 10 scenario-based storyboards	Assessment of personality score; Qualitative analysis of assistant personality
	CS2 [11]: Comparing human-human and human- agent conversation expectations and value	In-lab, semi- structured interviews	17 participants, tech familiarity; Smart environment with smart speaker	Qualitative analysis of conversation characteristics
	CS3 [9]: Effects pf conversational style perceived intelligence, trust, and metaphorical framing in older adults	In-home study, Wizard-of-Oz with interviews	58 participants, later adulthood; Lab environment with smart speaker	Likert-scale acceptability ratings; Qualitative analysis of metaphor usage
Proactivity and Context- Awareness	CS4 [14]: Effects of proactive feedback styles on user perception and reflection	In-lab study, Wizard-of-Oz study with interviews	30 participants; Lab environment with smart speaker	Perception ratings (e.g., helpfulness, appropriateness); Qualitative analysis on proactive persuasion
	CS ₅ [50]: Influence of social presence and co-activity on proactive assistant acceptance	In-home study using prototype	18 participants, tech familiar; Smart environment with smart speaker	Perception ratings (e.g., comfort, trust, disruption); Qualitative analysis of proactive initiations
	CS6 [57]: User preferences for when and how proactive behaviors should be initiated	Storyboard- based interviews	15 participants, tech familiarity; 9 scenario-based storyboards	Scenario ranking; Qualitative analysis of design tensions (e.g., timing, agency)
Managing Attention and Interruptibility	CS7 [8]: Personal, physical, and social contexts affecting interruptibility	In-home study, Wizard-of-Oz with interviews	40 participants; Smart environment with smart speaker	Interaction acceptance rate; Qualitative analysis of interruption timing
	CS8 [40]: User evaluations of proactive assistant interactions across utility, tone, and privacy	Storyboard- based interviews	47 participants; 8 scenario-based storyboards	Scenario ratings; Qualitative analysis of interaction acceptance
User Control and In-Situ Configuration	CS9 [35]: Timing and alignment of assistant actions with user agency in proactive support	In-lab study, Wizard-of-Oz study with interviews	12 participants; Smart environment with smart speaker	Interaction acceptance rate; Qualitative analysis of interruption timing
	CS10 [31]: Interaction patterns and behavior modeling during in-situ rule configuration	In-lab study, Wizard-of-Oz study with interviews	16 participants; Smart environment with smart speaker	Interaction flow proportions; Qualitative analysis of rule-setting preferences