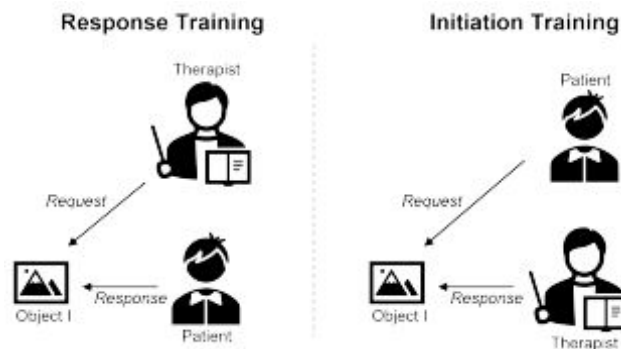


## Development of a component for the execution of individual joint-attention training scenarios with different social robot assistance systems for people with autism

This Master's thesis addressed a software architecture for robotic, configurable and autonomous scenarios of joint attention training to support autism therapy. The focus of the thesis is on the extensibility of the architecture for the use of different robots and on maximizing the usability of the interface for therapeutic users. By evaluating the user experience, we draw first conclusions about the usability of the system for computer scientists and non-computer scientists. Both groups can solve different tasks without major problems, and the overall usability of the system was rated as good.



### Resulting publication:

Groß, A., Schütze, C., Wrede, B., & Richter, B. (2022, November). An Architecture Supporting Configurable Autonomous Multimodal Joint-Attention-Therapy for Various Robotic Systems. In Companion Publication of the 2022 International Conference on Multimodal Interaction (pp. 154-159).

*Medical assistance systems* ranging from robots to smart home devices and apps provide support for people in physical and cognitive tasks. Based on a deep understanding of social interaction and human cognition, we develop effective intelligent assistance systems with the flexibility to co-construct interaction with different user groups (patients, relatives, doctors, nurses, etc.). This is achieved through a consistent *user-centered co-design*. Our goal is to support people in their well-being and participation through *studies and technology development* so that they can live autonomously and healthily.

More information is available at: <https://www.uni-bielefeld.de/fakultaeten/medizin/fakultaet/arbeitsgruppen/assistenzsysteme/>

Interested? @mail to [birte.richter@uni-bielefeld.de](mailto:birte.richter@uni-bielefeld.de)