

**Project Narrative**

Dementia and cognitive decline impose a large public health burden, and limited social interaction increases this risk in older adults. Through system design, algorithm development and feasibility study, this project will develop AIMI-CONNECT, an accessible conversational AI system with multimodal interaction that provides semi-structured conversational engagement at home for older adults with limited social interaction and mild cognitive impairment or normal cognition. The approach could expand access to evidence-based social engagement for broader populations at lower cost and with higher accessibility.