



## MEMORY AND AGING RESEARCH PROGRAMS

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### Multi-modal functional health assessment

Researchers in the Department of Psychology and School of Electrical Engineering and Computer Science at Washington State University are examining using sensor data to create a complete picture of a person's everyday routine behavior and activities. This data will then be used to remotely track information about how well activities are being completed in everyday environments and to automate real-time health assistance. We believe this program will have important implications for providing future older individuals coping with memory difficulties effective tools to help with maintaining their independence and quality of life.

#### **Who we need:**

- Older adults (age 50+) who are experiencing memory difficulties
- Speak fluent English

#### **Length of study:**

16 months

#### **Tasks involved if you participated:**

- Have a smart home installed in their own home for the 16 months of the study.
- Complete cognitive tests at the beginning and end of the study as well as 5 brief assessments throughout the 16 month study.
- Complete a brief series of questionnaires at 5 timepoints over the course of 16 months.
- Be observed for 3 hours while completing normal daily activities in their own homes at 5 timepoints.
- Wear smart watches for 1 week every 4 months, totaling 5 weeks over the 16 month study.
- Have motion sensors put on objects in their home for 1 week every 4 months, totally 5 weeks over the 16 month study.

**Individual benefits** include an honorarium of up to \$500 and a neuropsychological report about your cognitive and physical health relative to others of your same age.

**For more information, please contact:** (509) 335 – 4033

**Principal investigators:** Dr.'s Maureen Schmitter-Edgecombe and Diane Cook. This project has been reviewed and approved by the Washington State University Review Board for human subject participation.