

POMELO

BY TEAM HORTONS



STATE OF THE ART

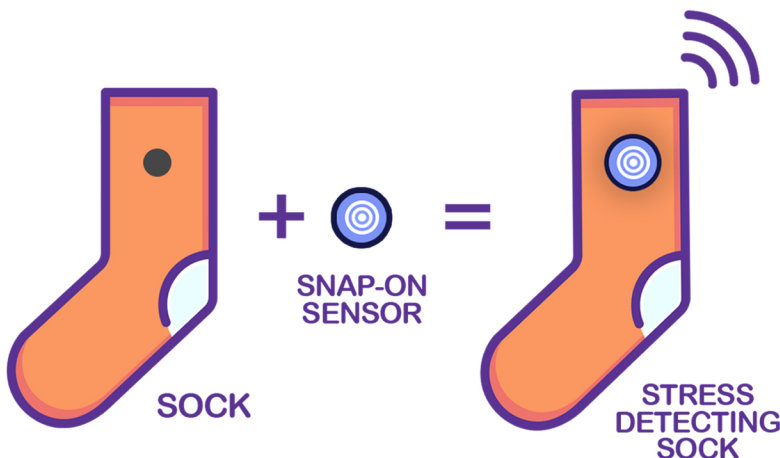
Researchers use EDA sensors to measure emotional responsiveness.

Pomelo Socks are the best available EDA sensors for persons with dementia because they are accurate, unobtrusive, and comfortable for extended wear.

Research shows that Patients with dementia experience **higher levels of stress and anxiety** than the average person. Measuring their stress levels can be used to monitor their well-being. Stress is observable via **electrical activity of the skin** (Electrodermal Activity or EDA).



We created a pair socks that enable long-term monitoring of the PWD well-being and emotional state.



These socks are

- Easy to use
- Non-stigmatizing
- Part of daily routine
- Economical
- Washable

This technology will be used to quantify long-term data collected in home environments to identify correlations between:



Environmental factors



Responses to new medication



Changes in therapy or new therapy strategies



Changes in mood throughout the day (e.g. Sun-downing)

Our Long-term Vision



Empower PWD's to quantify their emotional well-being



Provide a new world of quantitative data for dementia research.



Allow organizations providing care to make personalized care plans that are more effective (medically and financially)



Integrate with a smart app interface with real-time information for caregivers and family members when a PWD is in distress or automatically trigger mitigation strategies.