

FACULTY MENTOR

Mausbach, Brent

PROJECT TITLE

Caregiver Project

PROJECT DESCRIPTION

Our caregiver project has a long history of evaluating the relations between stress, negative emotions, and health risks in people who are caring for a loved one with dementia. Our recent project investigate biological indicators of stress, including blood pressure, blood pressure variability, heart rate, glucose release, and others. Our study has recently moved to investigating a mobile, smart-phone enabled intervention that is design to help caregivers more effectively manage their stresses. We plan to measure biological outcomes that can be measured through innovative technology.

INTERNS NEEDED

One or two, either BS or MS.

PREREQUISITES

Some background knowledge about medical technology, such as blood pressure measurement.

FACULTY MENTOR

Ettenhofer, Mark L

PROJECT TITLE

Eye Tracking and Virtual Reality for Assessment of Traumatic Brain Injury

PROJECT DESCRIPTION

Perform software development for eye tracking and virtual reality technology used to assess cognitive and functional capabilities of military service members with brain injuries.

INTERNS NEEDED

1 BS or MS student

PREREQUISITES

Experience with Unity, Python, and/or C# is preferred. Work will take place at Naval Medical Center San Diego.