**SPECIFIC AIMS**

Psychological stress is bad.

Likely due to changes in sympathetic tone.

Measuring sympathetic tone, and its surrogates, allows quantification of ANS function.

Detecting changes in ANS tone can identify at-risk individuals and treatment/intervention success.

Few studies look at MSNA and ECG findings in real-time.

HRV studies and only moderate correlation, mainly since those influences are long-term.

1. Determine relationship between MSNA and ECG findings during mental stress.
   1. P-wave morphology
   2. GEH
   3. TWA
   4. Effect of medications
2. Measure correlation of MSNA with other non-invasive measures of autonomic tone.
   1. SKNA
   2. VOP
   3. ML to detect ECG features that associate with MSNA