**FACULTY MENTOR**
Eric Granholm

**PROJECT TITLE**
Automated Therapy Fidelity

**PROJECT DESCRIPTION**
Automated speech processing and natural language processing will be used to automate fidelity ratings (the quality of the therapist’s delivery of the intervention) based on audio recordings (N > 600) of psychotherapy sessions.

**INTERNS NEEDED**
2 any level

**PREREQUISITES**
ASR or NLP knowledge
FACULTY Mentor
Eric Granholm

PROJECT TITLE
Pupillometry using RGB Cameras

PROJECT DESCRIPTION
Pupillometry can be used to quantify the amount of cognitive effort used to perform a task (greater pupil dilation indicates greater effort). Smartphone and webcams can be used to detect the pupil and quantify changes in diameter which can be used in a number of applications (e.g., early identification of risk for Alzheimer's disease; motivation and effort measurement in depression or schizophrenia).

INTERNS NEEDED
2 any level

PREREQUISITES
Computer vision/digital image capture knowledge