**FACULTY MENTOR**
Harinath Garudadri (QI) & Eric Granholm (SoM), Colin Depp (SoM)

**PROJECT TITLE**
Psi-Fi Oral Interactions

**PROJECT DESCRIPTION**
Develop embedded (i) speech diarization and (ii) turn-taking in oral interactions

This project can accommodate both remote and in-person students

**INTERNS NEEDED**
2

**PREREQUISITES**
Signal processing, GMMs, DNNs, MATLAB, Python, C/C++
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**PROJECT TITLE**
Psi-Fi Physical Activity Monitoring

**PROJECT DESCRIPTION**
Develop embedded (i) IMU feature extraction and (ii) physical activity classification. IMU is inertial motion sensing unit - our device has 3 IMUs, each with 3D-Accel and 3D-gyro.

This project can accommodate both remote and in-person students

**INTERNS NEEDED**
2

**PREREQUISITES**
Signal processing, GMMs, DNNs, MATLAB, Python, C/C++
FACULTY MENTOR
Harinath Garudadri (QI) & Eric Granholm (SoM), Colin Depp (SoM)

PROJECT TITLE
Psi-Fi Contextual Ecological Momentary Assessment

PROJECT DESCRIPTION
Develop (i) signal processing APIs for classifying oral and physical activity, (ii) web apps for pushing out EMA questionnaire to user's browser based on activity.

This project can accommodate both remote and in-person students

INTERNS NEEDED
2

PREREQUISITES
Signal processing, Node.js, React, Web development