

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

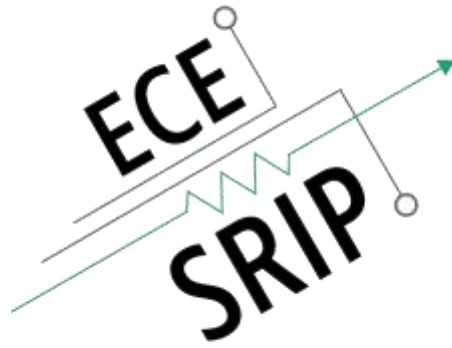
This project can accommodate both remote and in-person students

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.

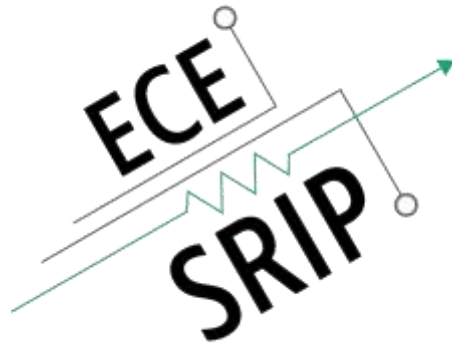
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PREREQUISITES

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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