

FACULTY MENTOR

Taswell, Carl

PROJECT TITLE

Wavelet-Based Algorithms for Rendering, Region-Segmenting and Path-Following in BrainWatch VR Software

PROJECT DESCRIPTION

See relevant published papers with reprints available at <https://www.brainhealthalliance.org/BhaStemm/Papers>; students will also participate in <https://www.bhavi.us/BhaviProgram/BHAVI2021>; financial support with stipend available if continued participation in BHAVI with full-time work during summer 2021.

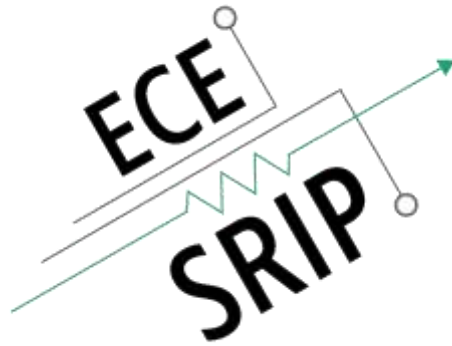
This project is remote

INTERNS NEEDED

2

PREREQUISITES

Mathematical/statistical signal/image processing coursework, computational sciences/engineering, especially experience with wavelets, multiresolution analyses, and/or VR/AR



FACULTY MENTOR

Taswell, Carl

PROJECT TITLE

Effect of Neurodegenerative Disease Status on Coregistration Accuracy of PET and MRI Brain Scans

PROJECT DESCRIPTION

See relevant published papers with reprints available at <https://www.brainhealthalliance.org/BhaStemm/Papers>; students will also participate in <https://www.bhavi.us/BhaviProgram/BHAVI2021>; financial support with stipend available if continued participation in BHAVI with full-time work during summer 2021.

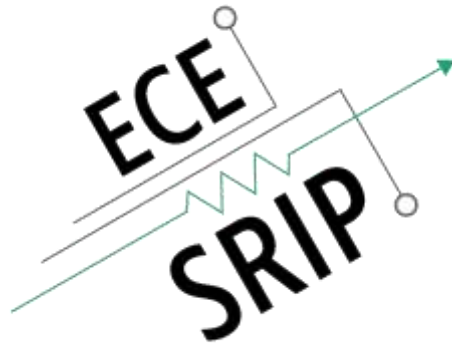
This project is remote

INTERNS NEEDED

2

PREREQUISITES

Mathematical/statistical signal/image processing coursework, computational sciences/engineering, especially experience with wavelets, multiresolution analyses, and/or use of measures/metrics as optimization criteria



FACULTY MENTOR

Taswell, Carl

PROJECT TITLE

Artificial Intelligence Methods for Concept-Similarity Detection and Matching for Brain Sciences Literature

PROJECT DESCRIPTION

See relevant published papers with reprints available at <https://www.brainhealthalliance.org/BhaStemm/Papers>; students will also participate in <https://www.bhavi.us/BhaviProgram/BHAVI2021>; financial support with stipend available if continued participation in BHAVI with full-time work during summer 2021.

This project is remote

INTERNS NEEDED

2

PREREQUISITES

General computational sciences/engineering coursework and programming experience; some familiarity with the semantic web and knowledge engineering