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