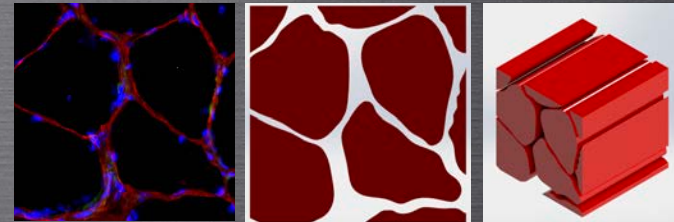


Center for Scientific Computation in Imaging (csci.ucsd.edu)

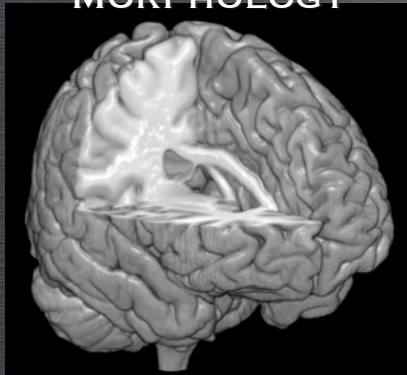
Lawrence R. Frank, Ph.D. , Director



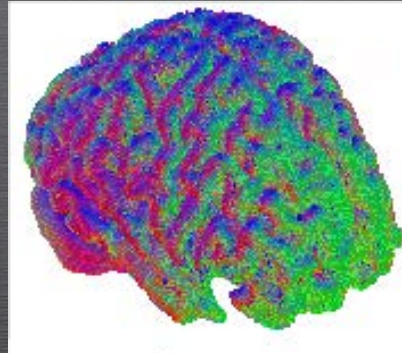
MUSCLE BIOPHYSICS



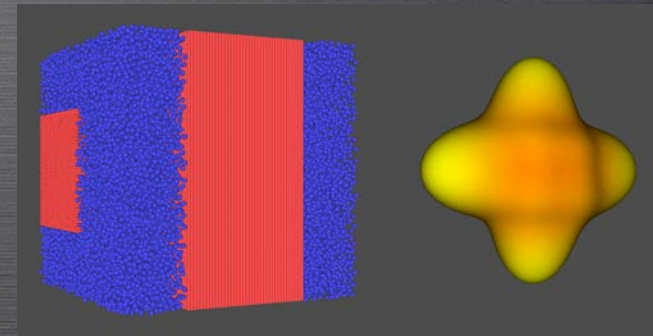
COMPUTATIONAL MORPHOLOGY



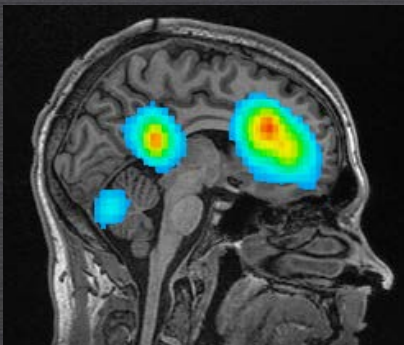
DIFFUSION MRI



COMPUTATIONAL PHYSICS



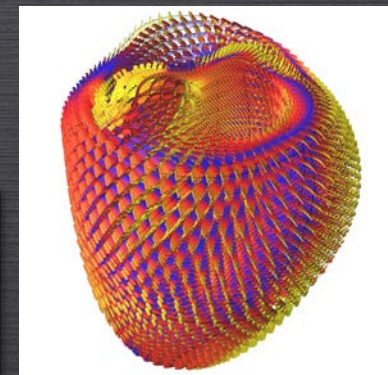
FUNCTIONAL MRI



EVOLUTIONARY BIOLOGY



CARDIAC BIOMECHANICS





SIGNIFICANT FUNDING SOURCES NIH AND NSF



- Development of MRI acquisition, analysis, and visualization methods for quantitative neuroimaging, including morphology, diffusion imaging, and functional MRI
- Generalized imaging and computational methods
- Evolutionary biology
- Muscle structure and function (with Ward Group)
- Cardiac biomechanics (with McCulloch and Omens Groups)
- Novel pulse sequence development for diffusion MRI
- Computational modeling of tissue biophysics and imaging physics
- Ongoing clinically related research in traumatic brain injury and Alzheimer's disease.