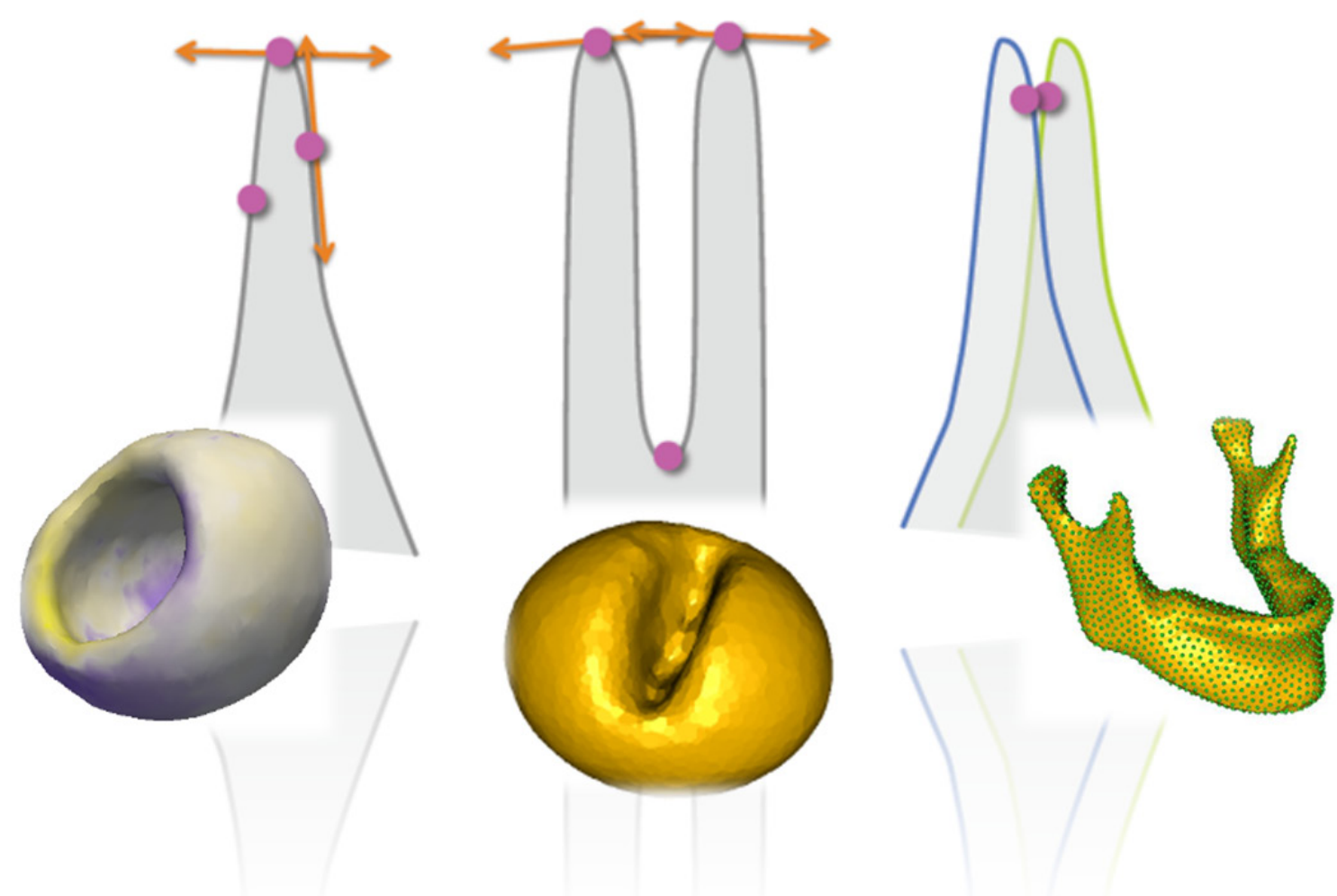


# Ross Whitaker

Professor of Computer Science,  
School of Computing and  
Scientific Computing and Imaging Institute

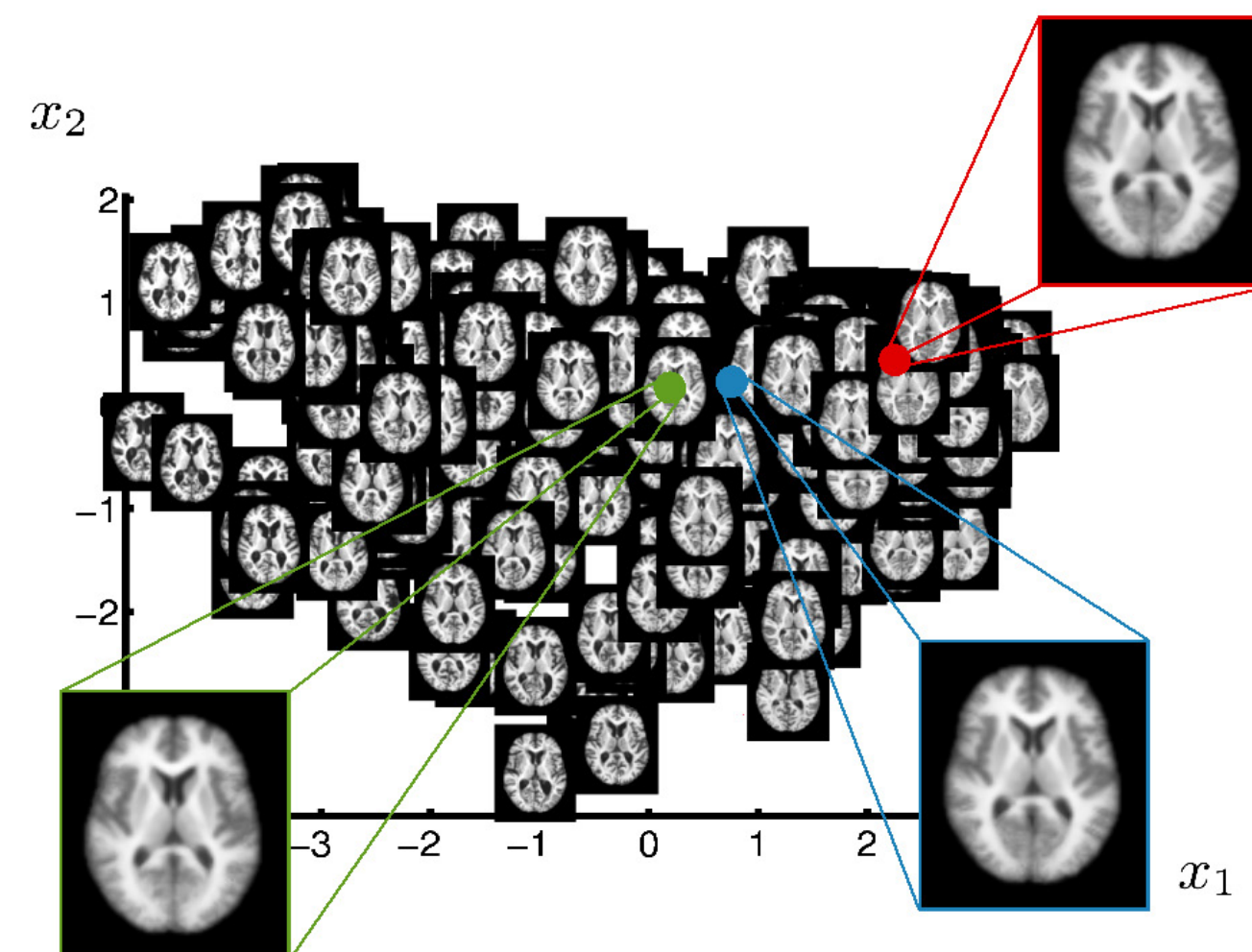
## Analysis of Shapes and High Dimensional Data

**Manasi Datar** - Statistical Analysis of Ensembles of Nonregular Shapes



Research funded by: National Alliance for Medical Imaging Computing (NA-MIC)

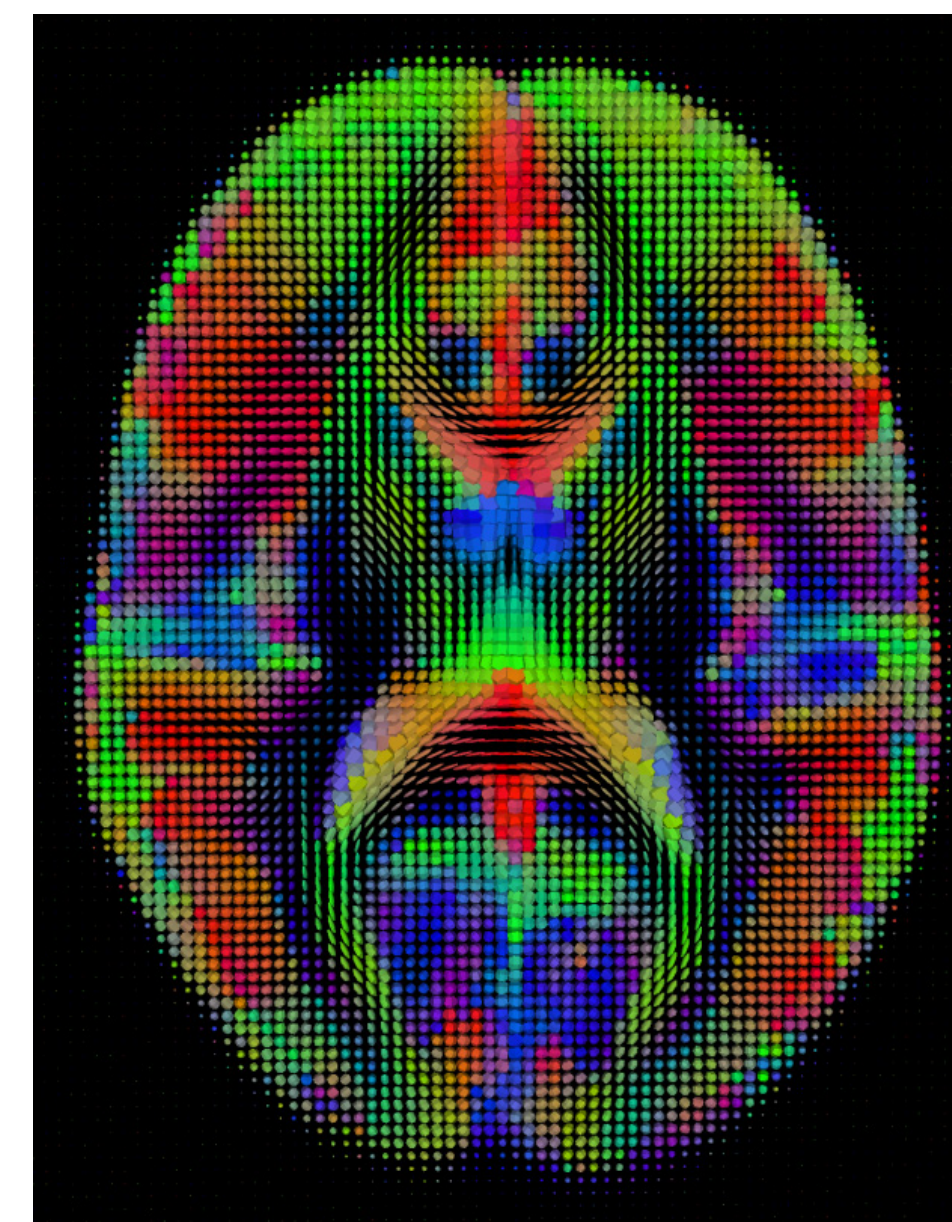
**Sam Gerber** - Brain Population Analysis with Manifold Models



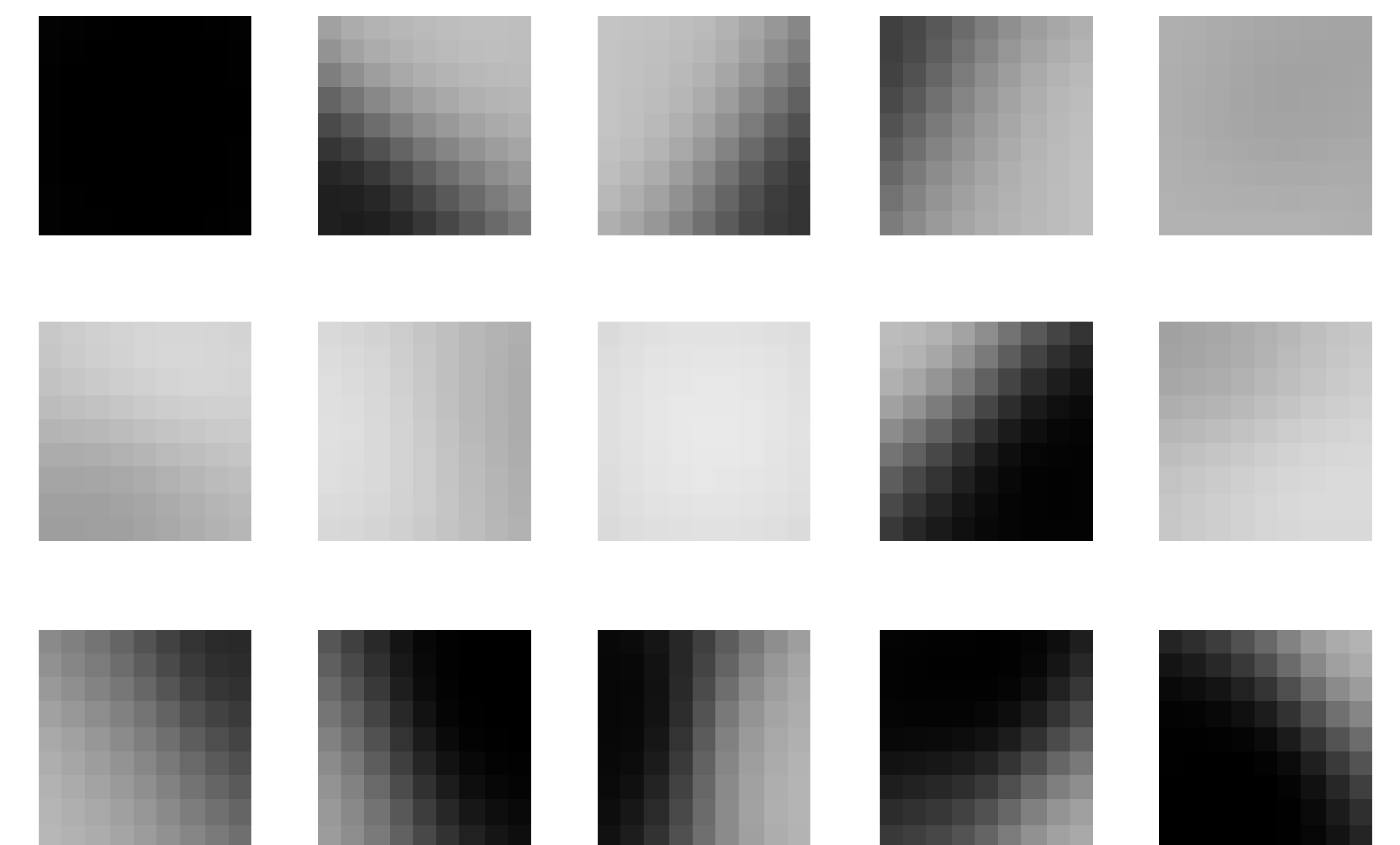
Research funded by: NSF MSPA-MCS

## Neuroimaging

**Gopalkrishna Veni** - Diffusion tensor analysis



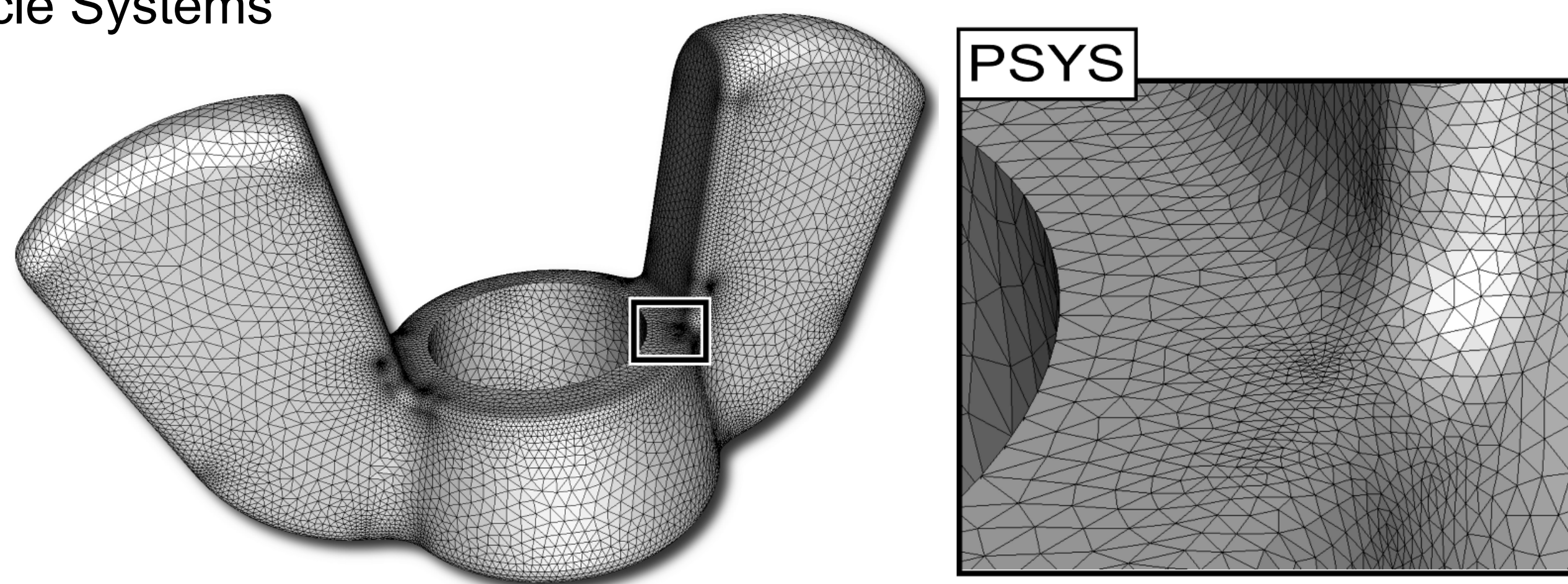
**Miaomiao Zhang** - Feature-based Image Registration



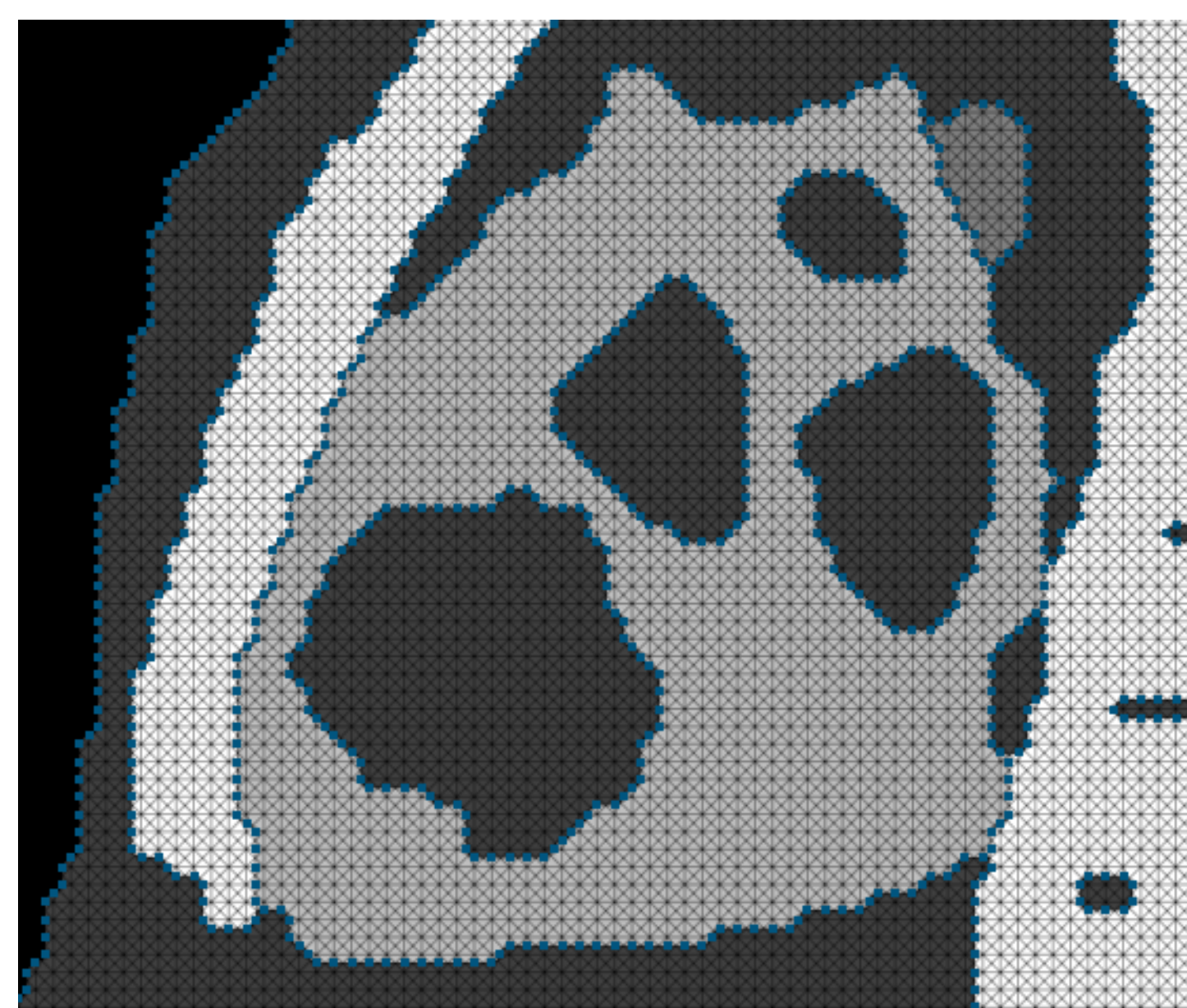
Research funded by: National Alliance for Medical Imaging Computing (NA-MIC)

## Geometry and Simulation

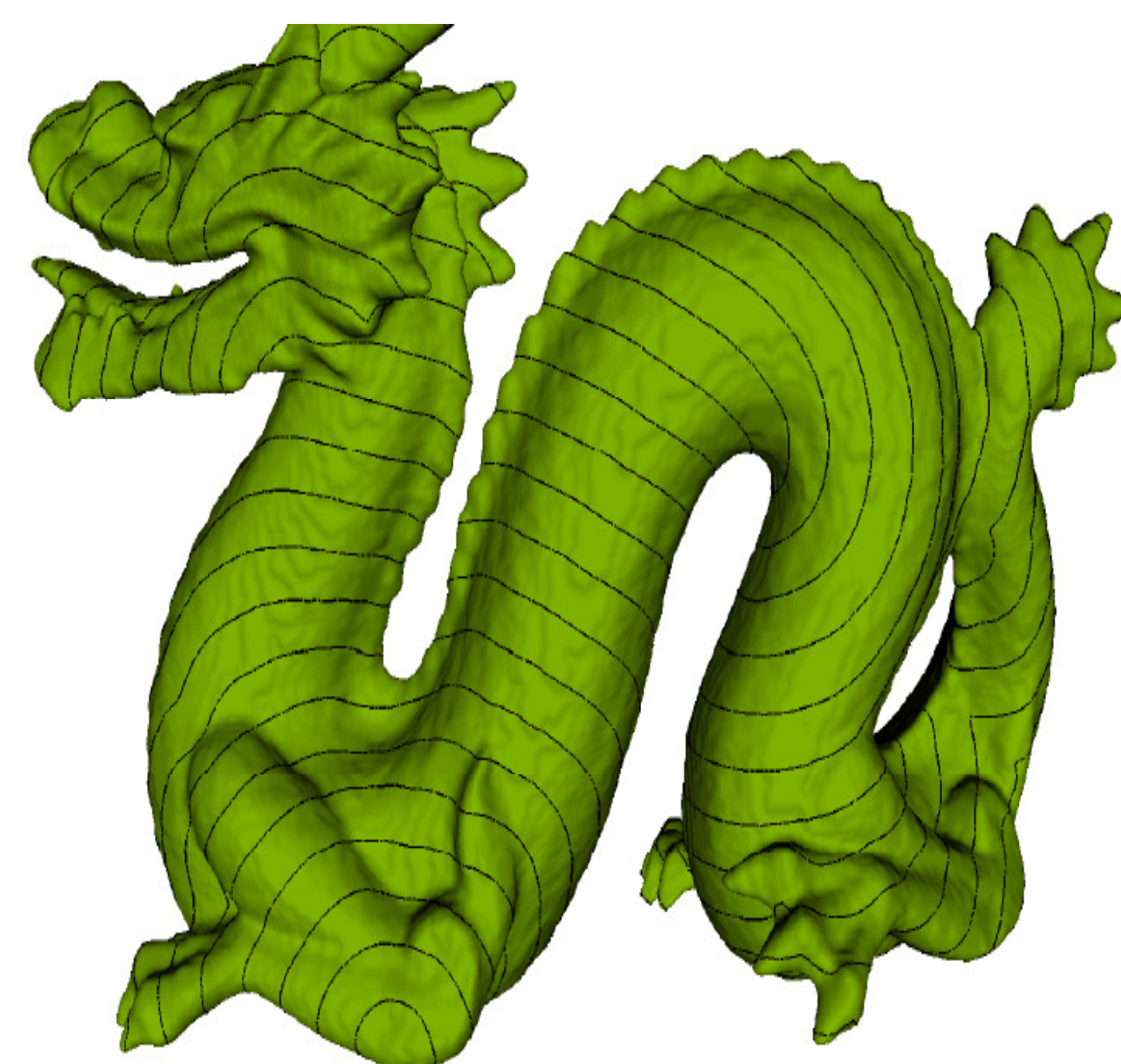
**Josh Levine, Ph.D.** - Adaptive, isotropic meshing of CAD models using Particle Systems



**Jonathan Bronson** - Meshing for multimaterial biological volumes



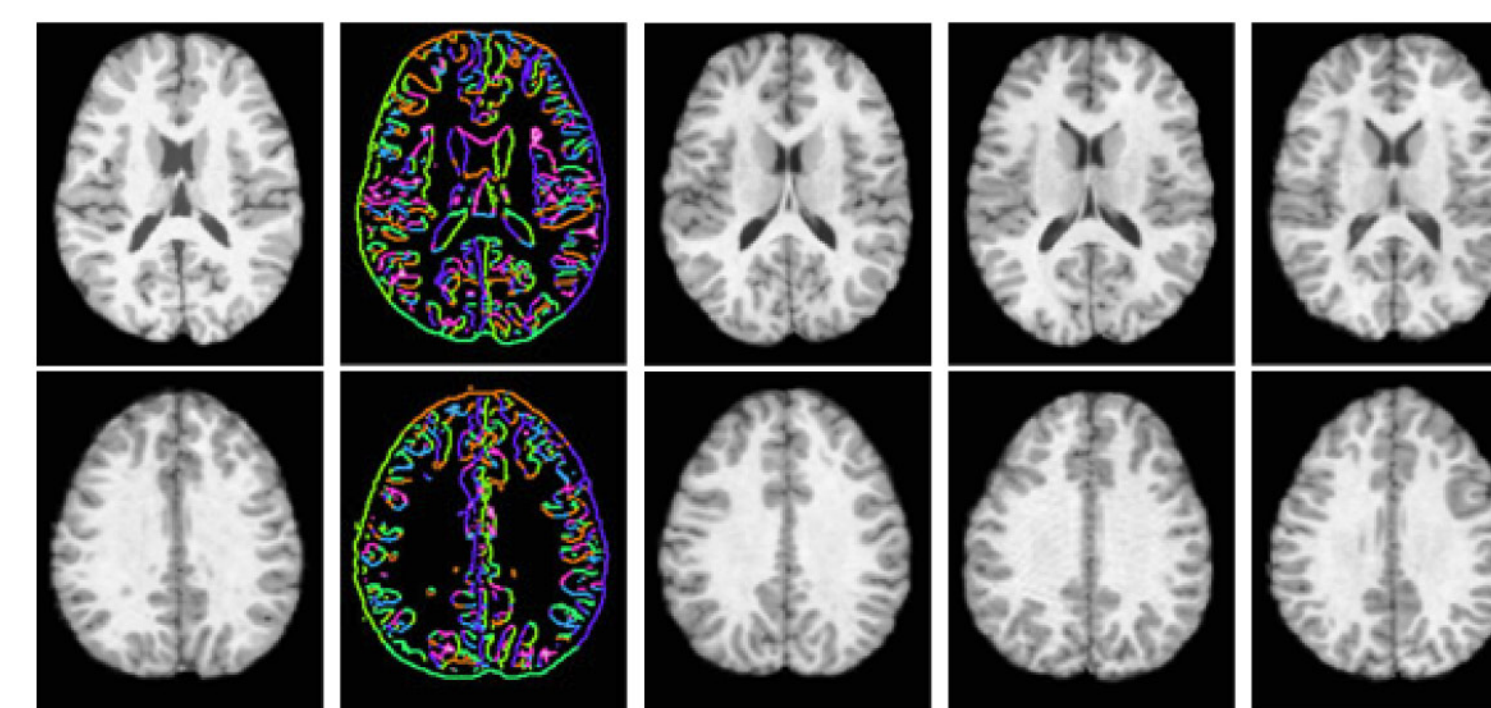
**Zhisong Fu** - Eikonal Equation on Triangulated Surfaces



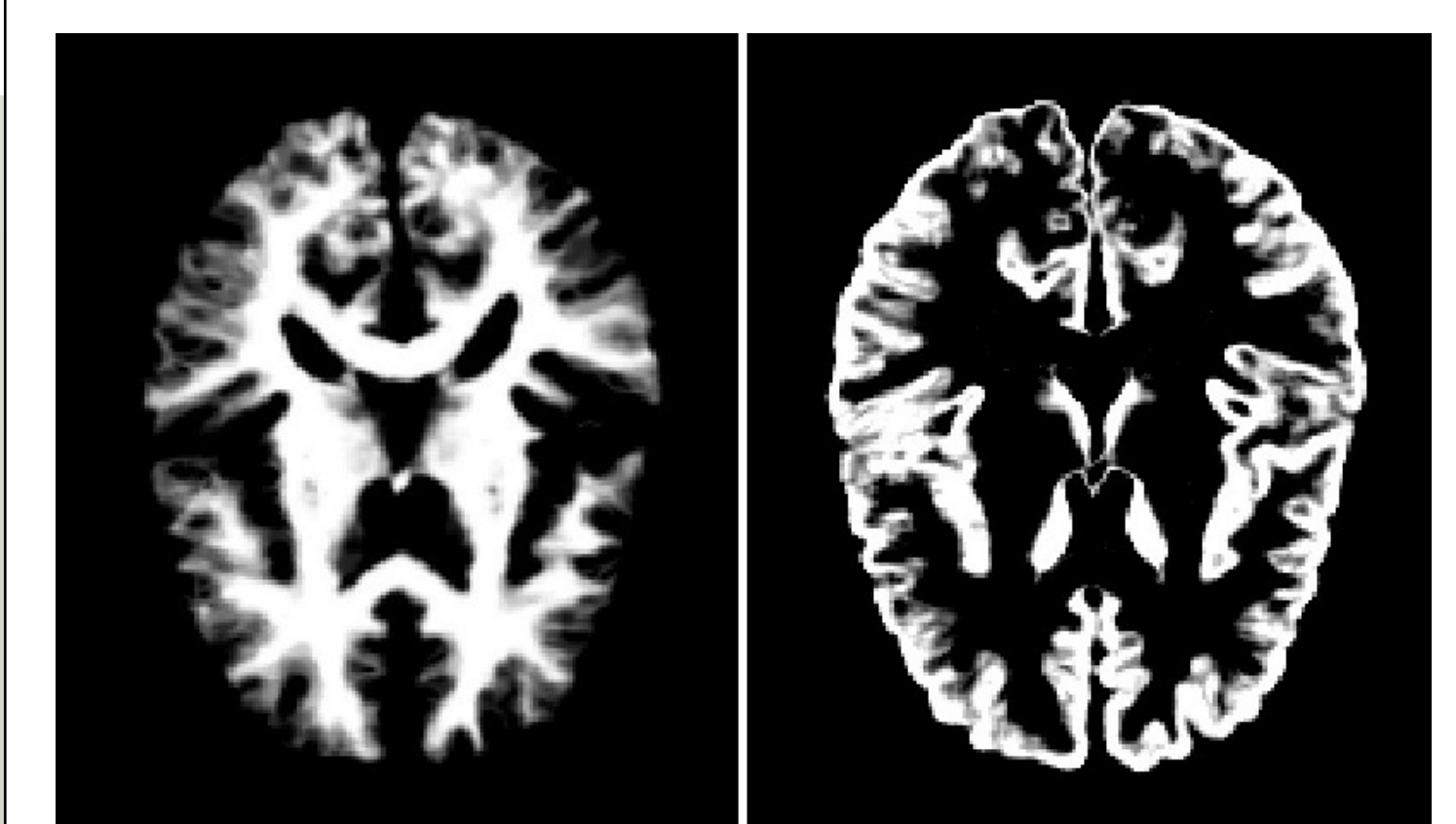
Research funded by: Center for Integrated Biomedical Computing (CIBC)

## Applications of Image Analysis

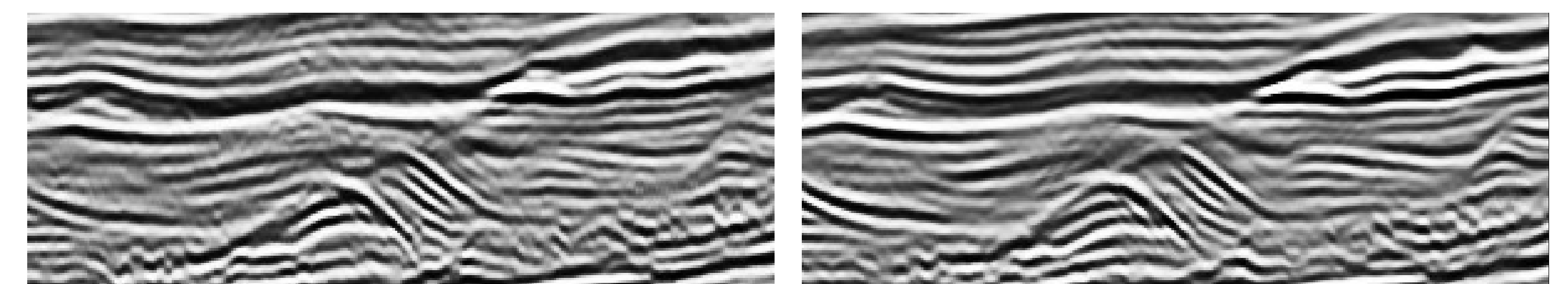
**Suyash Awate, Ph.D.** - Fast Shape-Based Nearest-Neighbor Search for Brain MRIs



**Peihong Zhu** - Non-parametric Models for Brain Image Analysis and Seismic data



**Jihwan Kim** - Image registration



Research above funded by: Exxon Mobil Upstream Research Corporation

**Caleb Rottman, Sam Preston** - Spatiotemporal Denoising of Real-Time Fluoroscopic Images

Research funded by: GE Healthcare

