

The Image Guided Cancer Therapy Research Program  
at MD Anderson Cancer Center presents  
**Deformable Image Registration Workshop**

## Day 1: Fundamentals of Image Registration

*Wed, May 18<sup>th</sup> 9am-1pm CST*

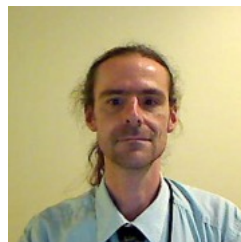
### *Fundamentals of DIR & Similarity Metrics*



**William (Sandy) Wells, PhD**

*Professor, Department of Radiology  
Brigham and Women's Hospital and  
Harvard University*

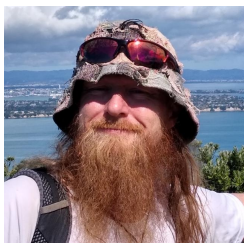
### *Demons Algorithms*



**Gregory C. Sharp, PhD**

*Associate Professor and Medical Physicist, Radiation  
Oncology Department  
Massachusetts General Hospital*

### *Free-Form Deformable Algorithms*



**Jamie McClelland, PhD**

*Associate Professor, Medical Physics &  
Bioengineering Department  
University College London*

### *Fluid-Flow & Elastic Algorithms*



**Gary E. Christensen, PhD**

*Professor, Electrical & Computational Engineering and  
Radiation Oncology Departments  
University of Iowa*

### *Deep Learning-Based Algorithms*



**Jayashree Kalpathy-Cramer, PhD**

*Associate Professor, Radiology Department  
Massachusetts General Hospital and Harvard  
University*

### *Biomechanical Model-Based Algorithms*



**Kristy Brock, PhD**

*Professor,  
Imaging Physics Department  
MD Anderson Cancer Center*

**Day 1 Zoom Link:** <https://mdacc.zoom.us/j/81740775412?pwd=R1J0MlVXVHU0cTh4cW5kZlZldEY1UT09>

**Passcode: 800525**