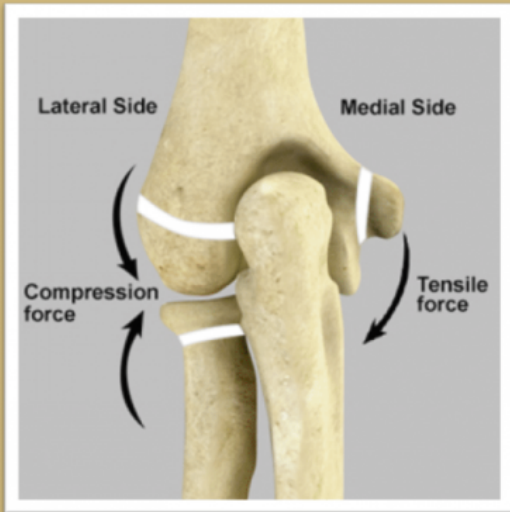
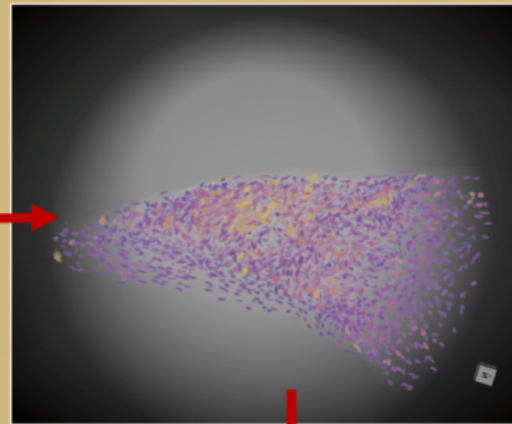


Using spatial statistics to characterize the distribution of Osteocytes in Knee Bone



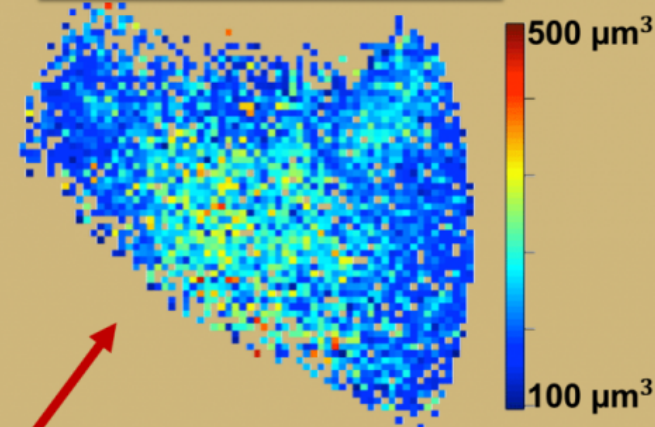
Visualization of forces on elbow bone

3D Rendering
colored
by **Volume**



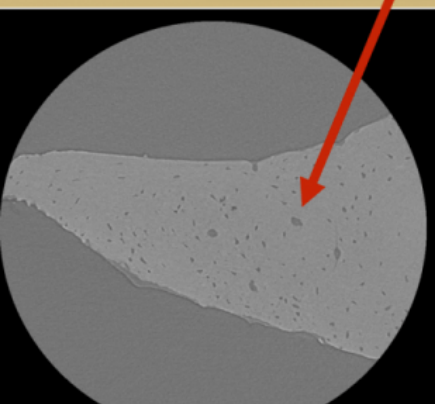
Can use **spatial statistics**
to **quantify** visual differences

Discretized Tensile Data

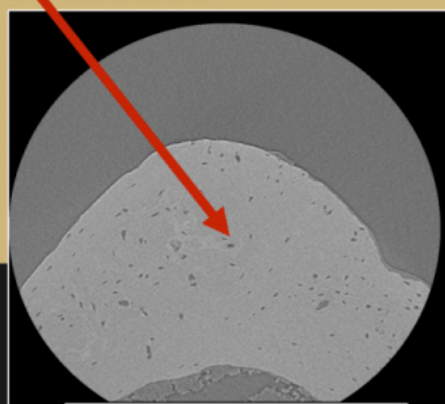


Data collected via **Nano CT scanner**

Individual Osteocytes



Tensile



Compressive

Interested in **variation** of:

- ❖ Volume
- ❖ Orientation
- ❖ Location

Gaussian Process Smoothing

Osteocyte: a bone cell, formed when an osteoblast becomes embedded in the matrix it has secreted.