

Analysis of 12 locations from MULTIS-001-1: 3mm x 6mm boxes around point boundaries

- LL x 2
- UA x 6
- LA x 4

Vertical Distribution: Fit to Gaussian distribution after averaging in the horizontal direction and normalizing by the maximum of that mean (Figure 1).

First Hu invariant calculated with image normalized to the mean of the image (used skimage.measure module) (Figure 2)

ANOVA:

Mean ($p < 0.001$)

Stdev ($p = 0.033$)

First invariant ($p = 0.558$)

Tukey HSD:

Mean: Transducer/Skin boundary is greater than all other means

Standard Deviation: Skin/Fat and Fat/Muscle are different

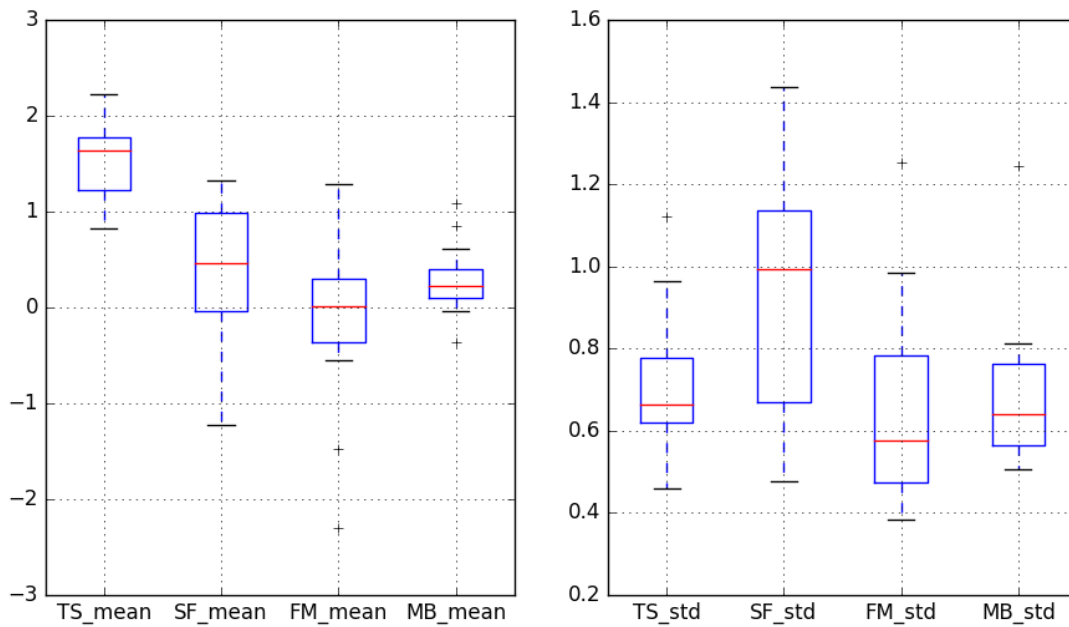


Figure 1: Boxplots of Gaussian results for each boundary: mean (left), standard deviation (right)

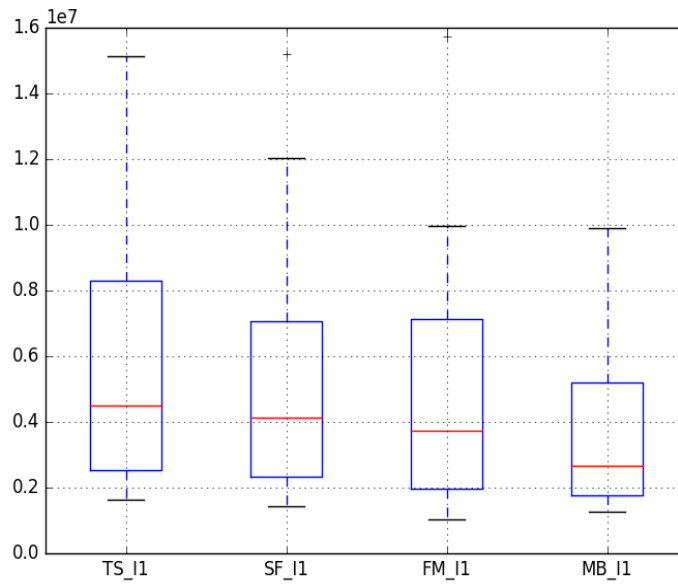


Figure 2: First Hu invariant of each group (analogous to moment of inertia)

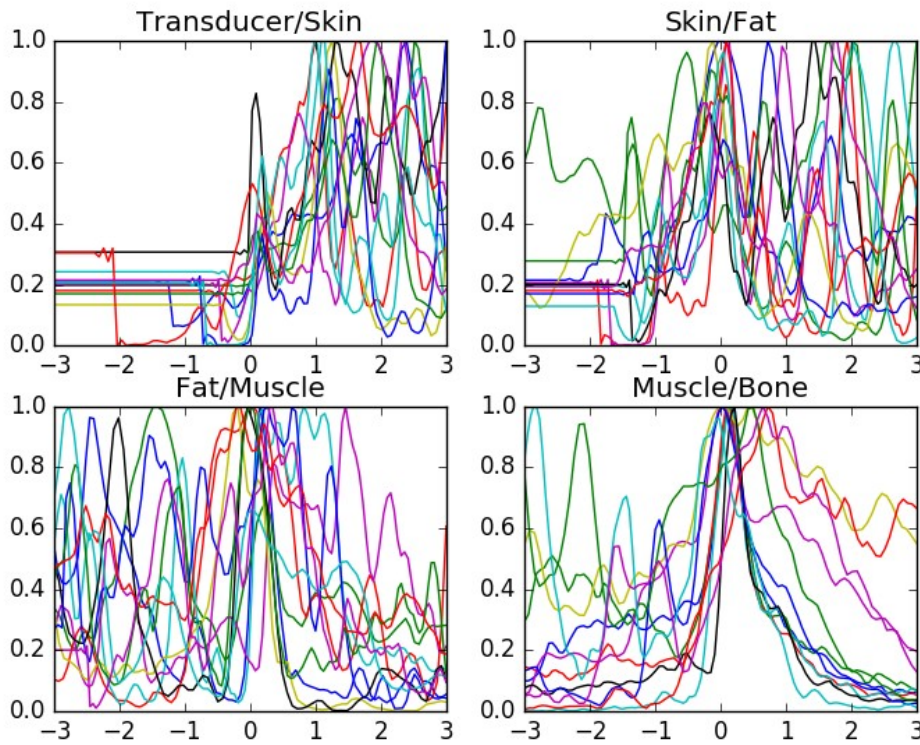


Figure 3: Raw distributions of each image in the training set.