Learned Acoustic Impedance from MRI T1 Intensities

Acoustic Impedance (MRayl) vs T1 Intensity (a.u.)

Tissue Region

Model Architecture :
Input: T1 Intensity
Hidden: 2×64 (ReLU)
Output: Impedance

Training :
Epochs: 2000
Loss: MSE

Legend:
— Learned Impedance Mapping
● Fat
■ Liver
◆ Muscle
▲ White Matter
▼ Gray Matter
⬟ CSF
★ Air
Uncertainty ($\pm 3\%$)