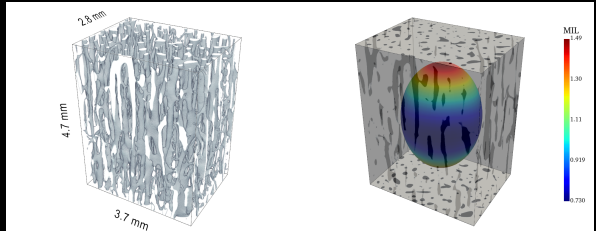


Mathieu Simon

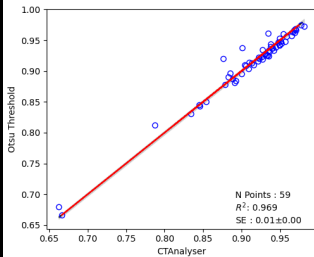
December, 2024

Data

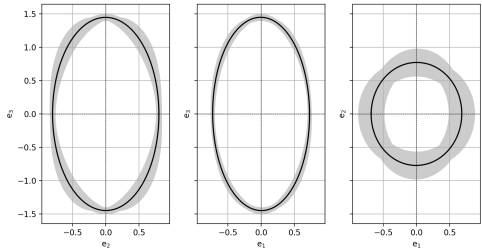
- 59 scans
- $6.5\ \mu\text{m}$ voxel size
- RUS measurements
- CTAnalyser

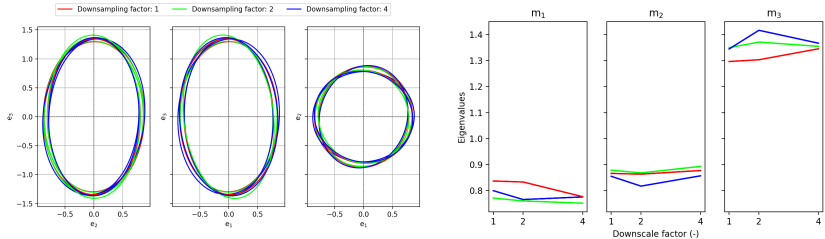


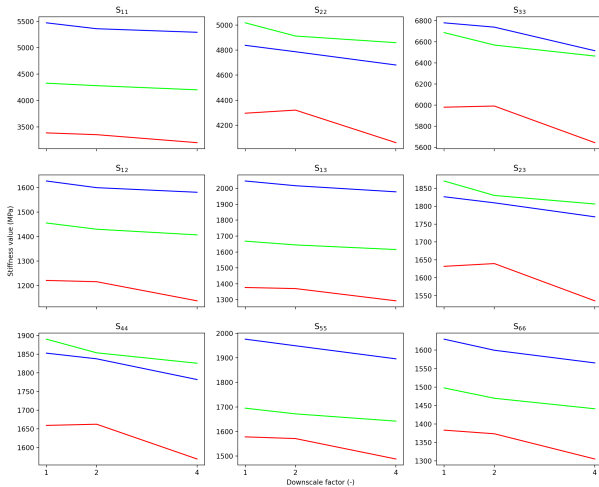
Mean Otsu threshold

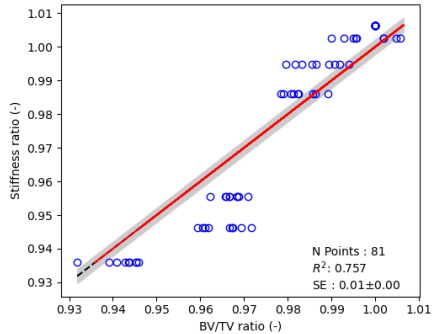
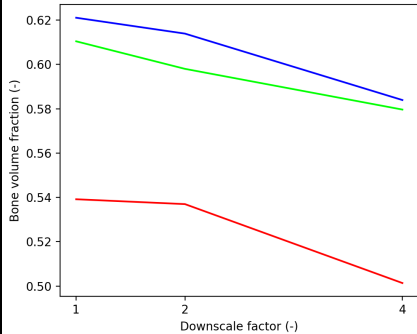


Fabric distribution





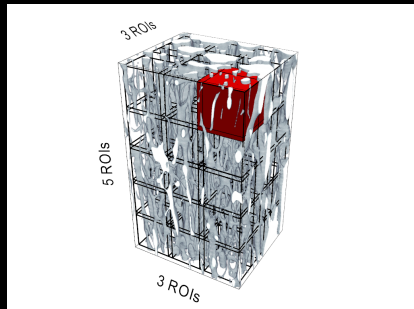




Setup

- 1mm ROI side length
- 3x3x5 ROIs
- 65 μm margin
- Groups of 1, 2, ..., 45 ROIs

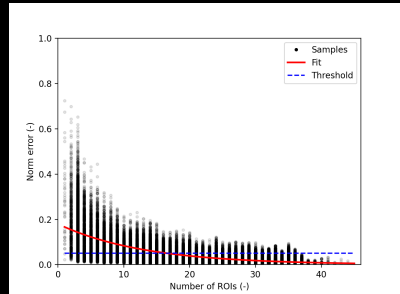
→ $\sim 2^{45}$ possibilities



Sampling

- Balanced clustering
→ Linear sum assignment
→ $216 \cdot 10^6$ possibilities
- N samples = 1000
- Norm Error
- Threshold = 0.05

→ 15-16 ROIs



Setup

- Downsampling factor: 2
- $16 \times 1 \text{ mm}^3$ ROIs
- Isotropic vs transverse
- Mean Σ / Sample

