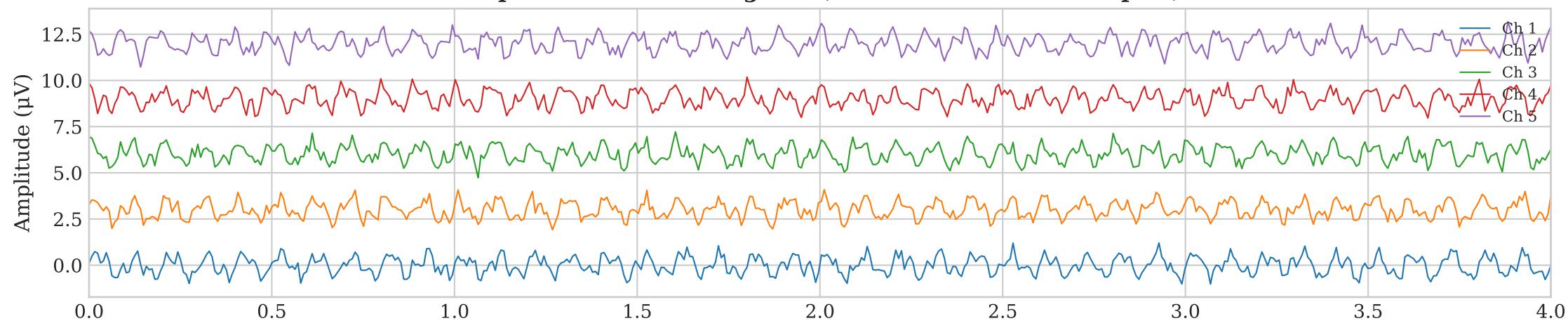
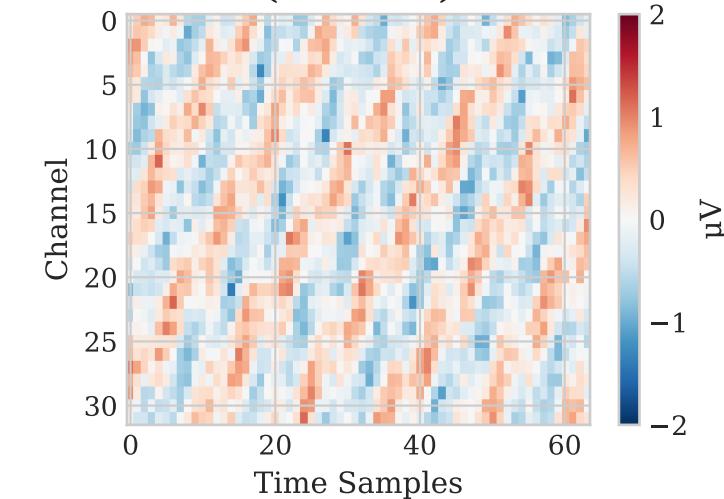


EEG Signal: 1D to 2D/3D Tensor Conversion

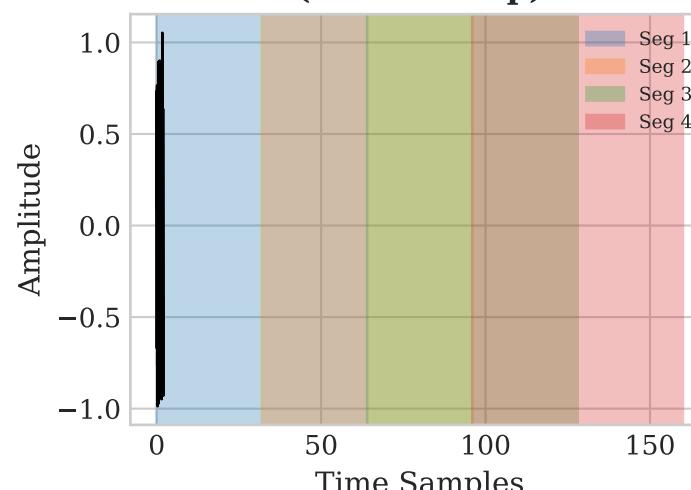
Step 1: Raw 1D EEG Signals (32 channels \times 512 samples)



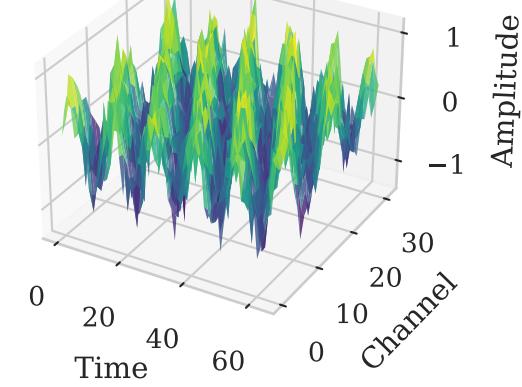
**Step 2: 2D Matrix
(32 \times 512)**



**Step 3: Sliding Window
(50% overlap)**



**Step 4: 3D Tensor
(B \times 32 \times 64)**



Tensor Shape Transformation Pipeline

