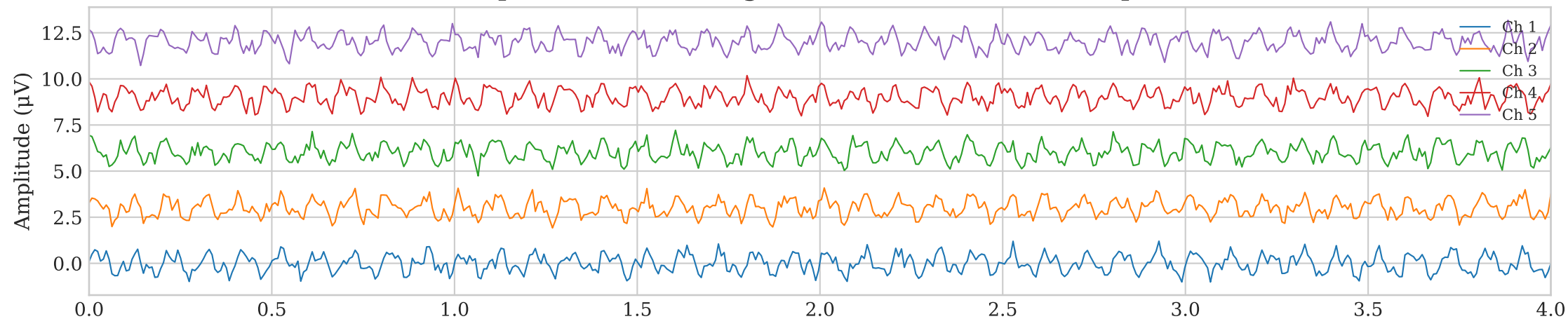
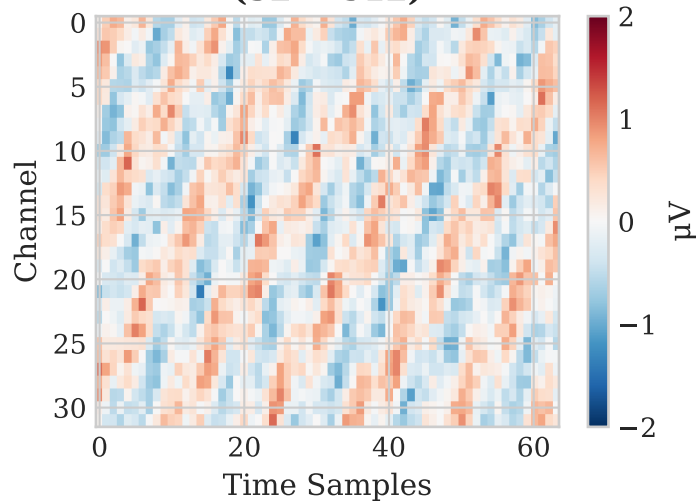


# EEG Signal: 1D to 2D/3D Tensor Conversion

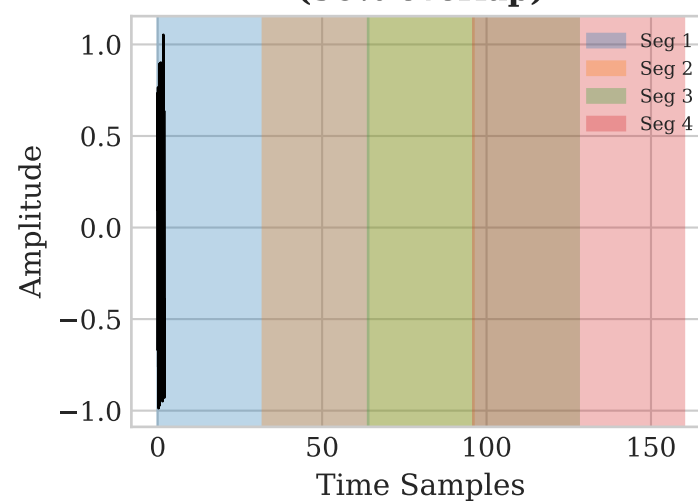
**Step 1: Raw 1D EEG Signals (32 channels  $\times$  512 samples)**



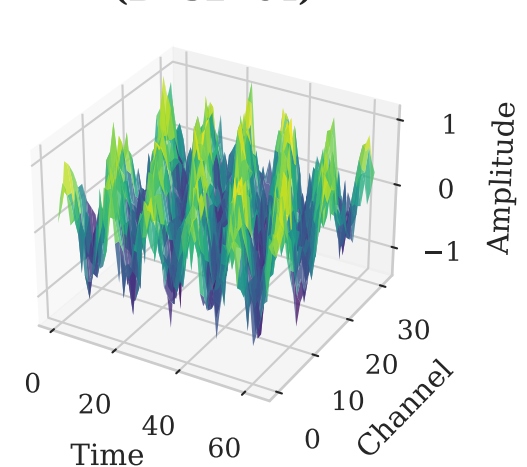
**Step 2: 2D Matrix  
(32  $\times$  512)**



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



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



**Tensor Shape Transformation Pipeline**

