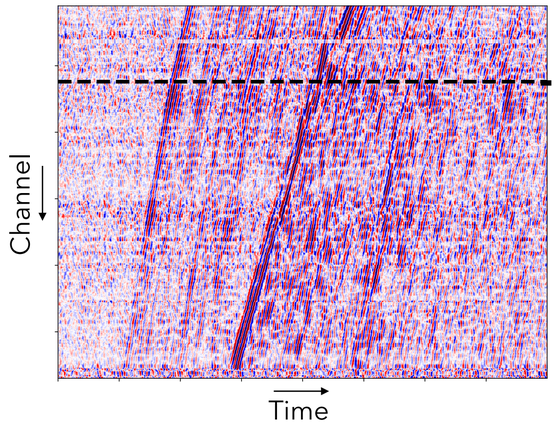
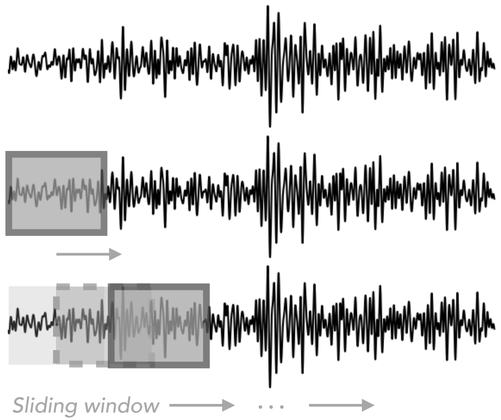
Raw DAS data

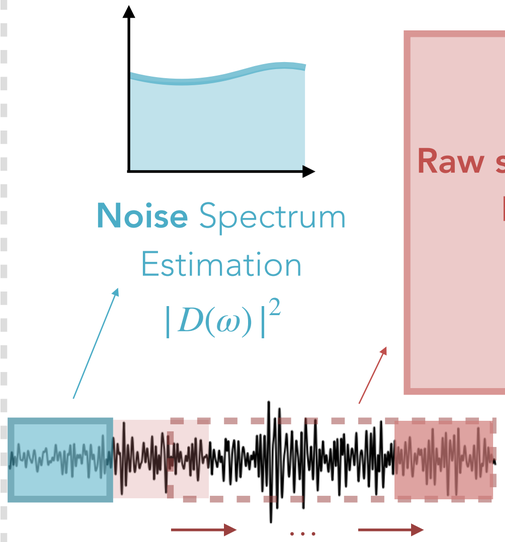


Segmentation & Windowing
(for each channel)



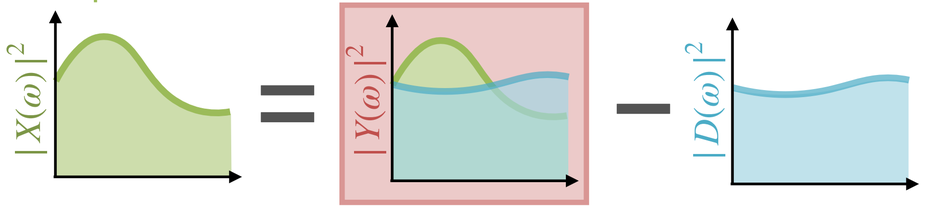
FFT

Noise and Raw signal spectra for each frame

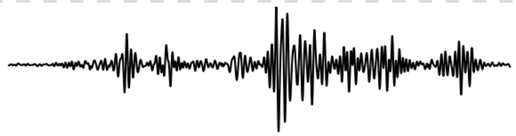


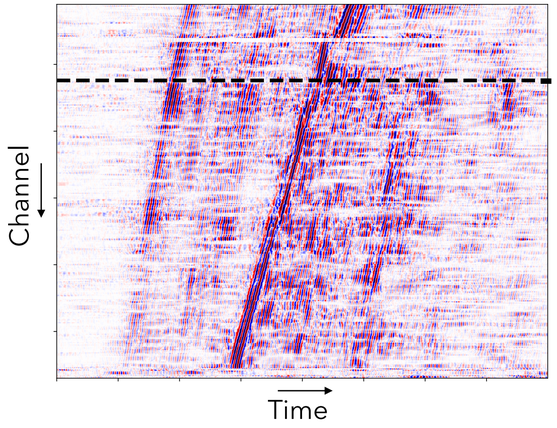
$$|Y(\omega)|^2 = |X(\omega)|^2 + |D(\omega)|^2$$

Spectral Subtraction Operation



IFFT



Improved SNR

Denoised DAS data