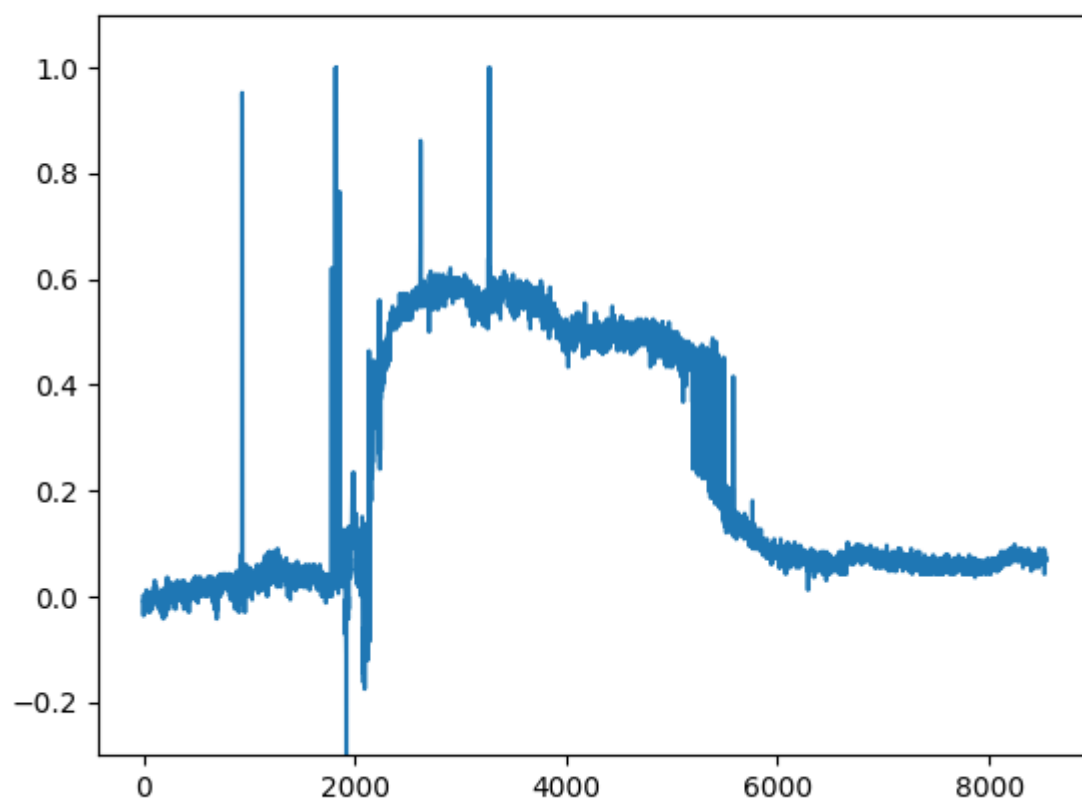


Canyu's FCN Smoothed Results

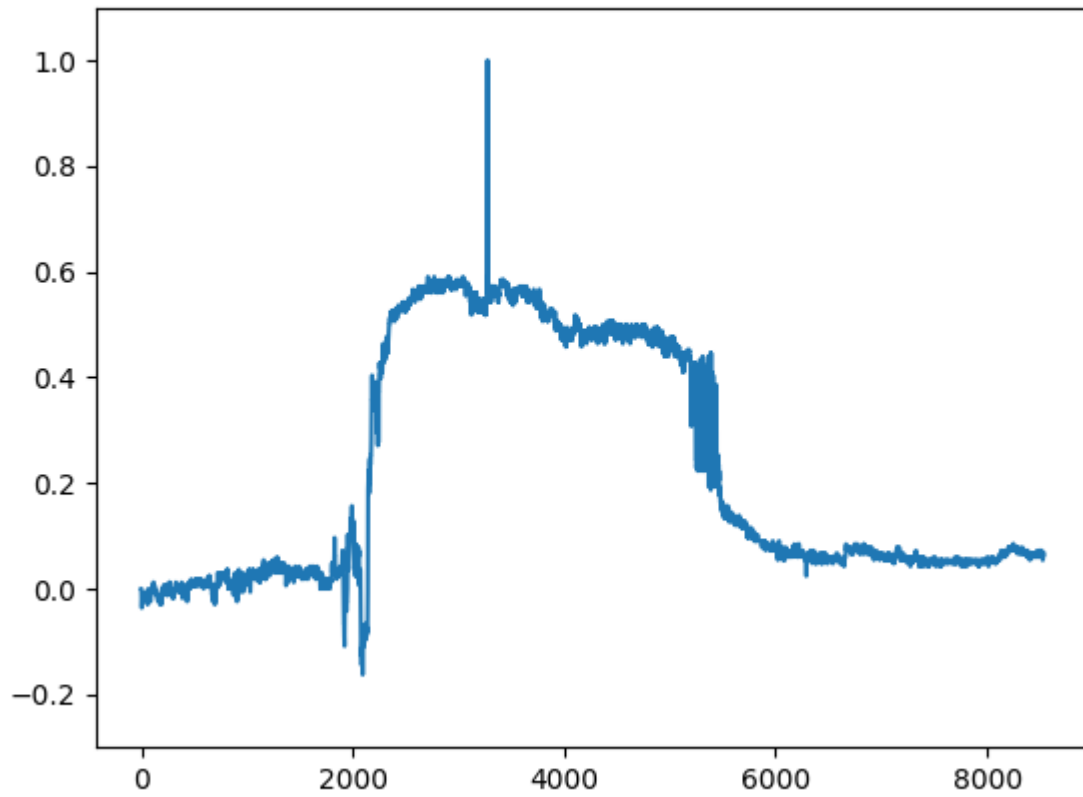
Yongqing Liang

10/04/2018

1. Original Result



2. Time Series Smooth

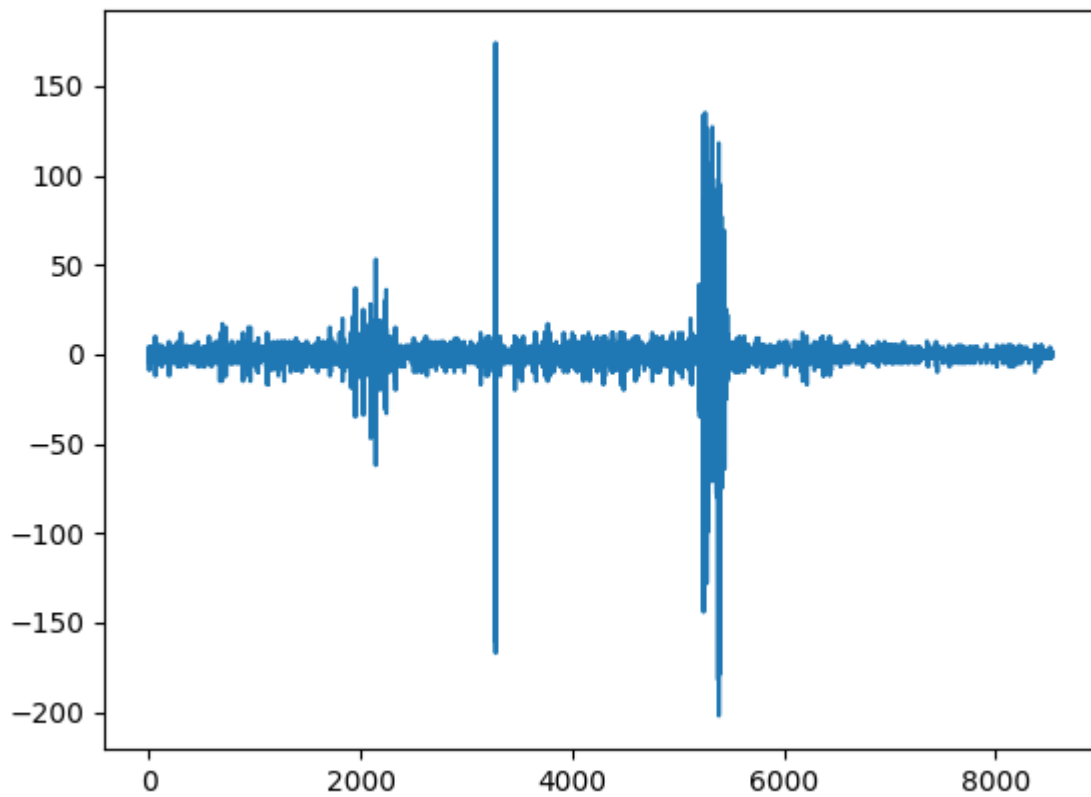


$$Mask_New_i = (1 - decay) * Mask_New_{i-1} + decay * Mask_i$$

$$Mask_New_i = threshold(Mask_New_i, thres, 255)$$

where $decay = 0.2, thres = 200$

3. Laplacian Detect Peak

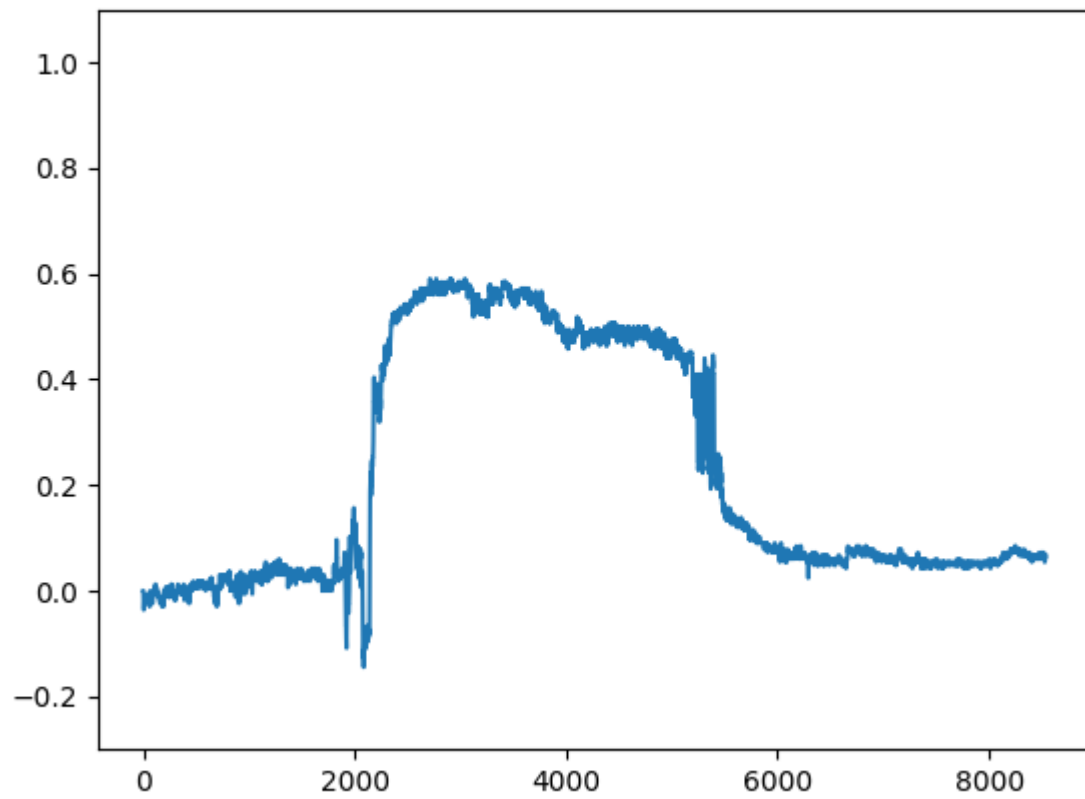


$kernel_size = 5$

$kernel = [-1/6, 8/3, -5, 8/3, -1/6]$

Apply on the time series smoothed result.

4. Median Filter



kernel_size = 9

```
if (laplacian val at t > 30) then
  Apply median filter on t-1
  Apply median filter on t
  Apply median filter on t+1
```