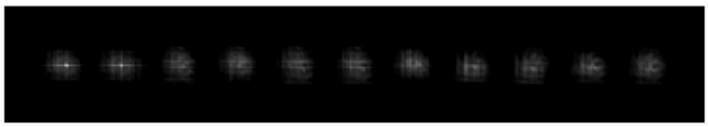
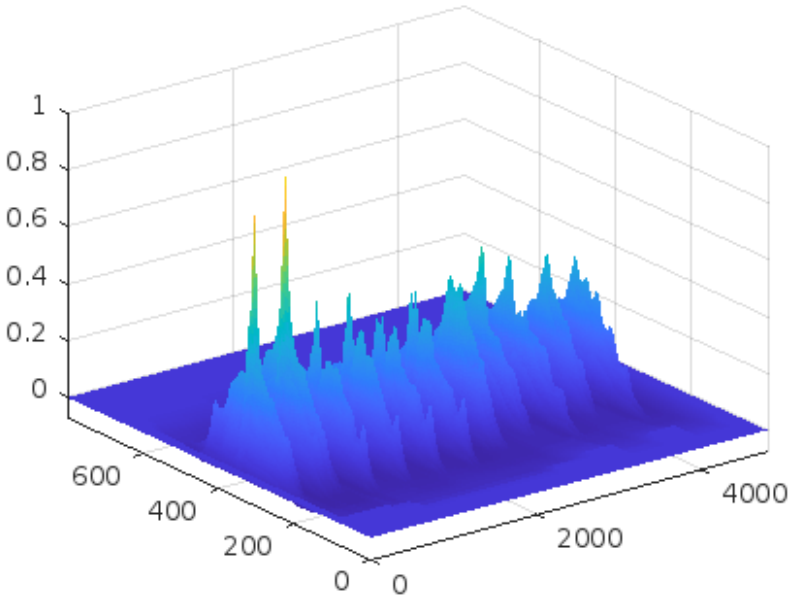
```
clc
clear all
close all
A = imread('b.png');
D = imread('all_data.png');

A_Gray = rgb2gray(A);
D_Gray = rgb2gray(D);


Level_A=graythresh(A_Gray);
bw_candidate=im2bw(A_Gray, Level_A);

Level_D=graythresh(D_Gray);
bw_template=im2bw(D_Gray, Level_D);

figure(), imshow(bw_candidate);
figure(), imshow(bw_template);

a = bw_template;
b = bw_candidate;
cross=normxcorr2(b,a);
imshow(cross)
figure,surf(cross),shading flat
[y x]=find(cross>=0.96*max(cross(:)));
ynew=y-size(b,1);
xnew=x-size(b,2);
figure;
imshow(a);
for i=1:length(xnew)
imrect(gca,[xnew(i)+1,ynew(i)+1,size(b,2),size(b,1)]);
hold on;
end
```





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