

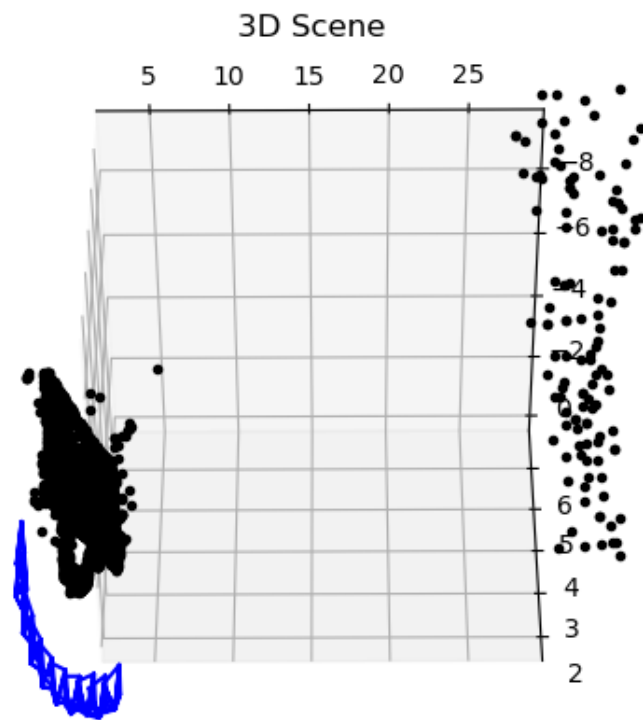
Lab7

1.SfM

Results

```
# init_images = [3, 4]  
init_images = [5, 6]
```

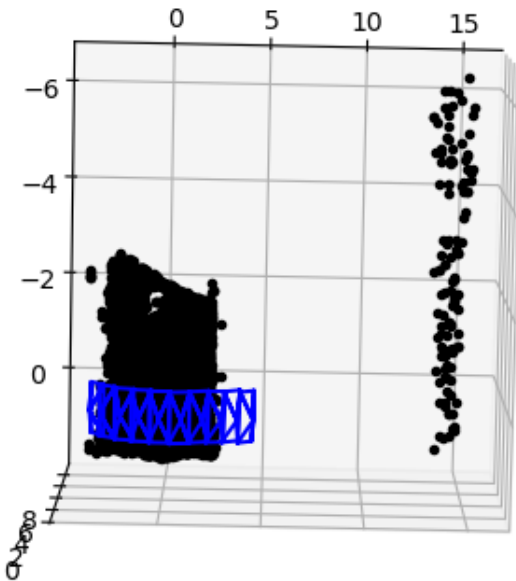
If started with initial picture 3 and 4, the results is not so good which is a little bit skew.



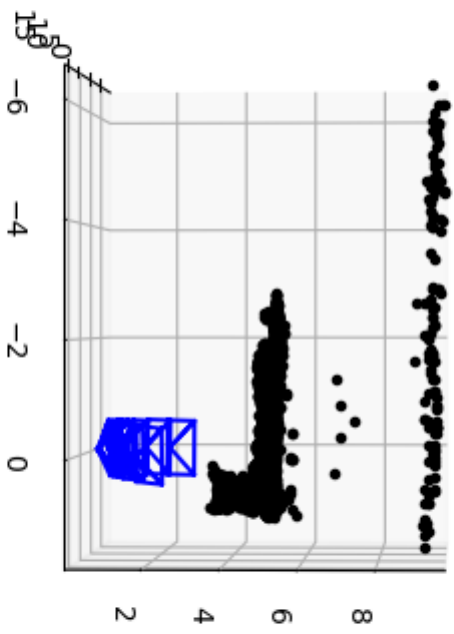
After changing to 5 and 6 as initial pictures, the results is shown below.

front

3D Scene



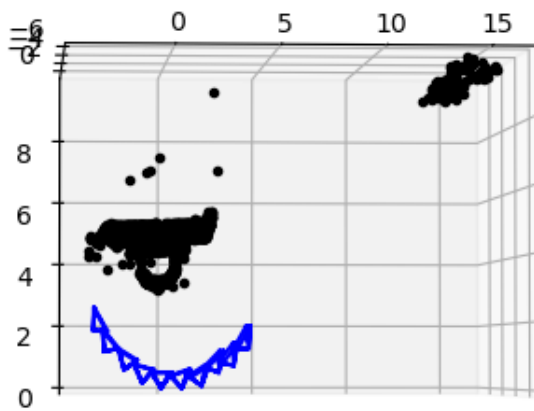
3D Scene



right

up

3D Scene



2.RANSAC

Results

We can see RANSAC method is nearly not influenced by outliers compared to least-squares method.

	ground truth	least-squares	RANSAC
k	1	0.61596566	0.98938248
b	10	8.96172714	10.02746807

```
D:\code\anaconda3\envs\cv-lab6\python.exe D:\OneDrive\school\ETH\study\HS23\CV\Lab\Lab7\exercise\code\impl\fitting\line_fitting.py
(500,)
Estimated coefficients (true, linear regression, RANSAC):
1 10 [0.61596566] [8.96172714] [0.98938248] [10.02746807]

Process finished with exit code 0
```

