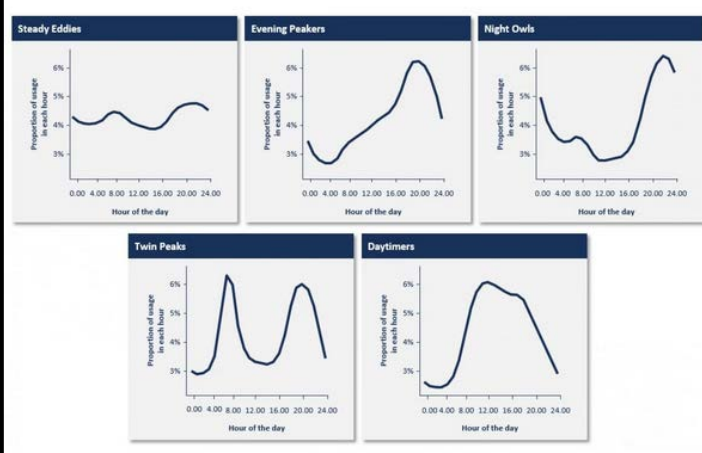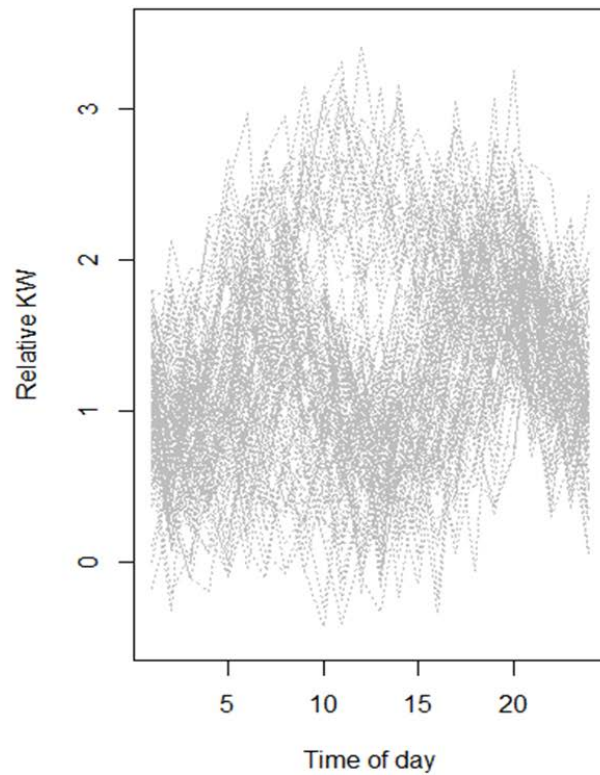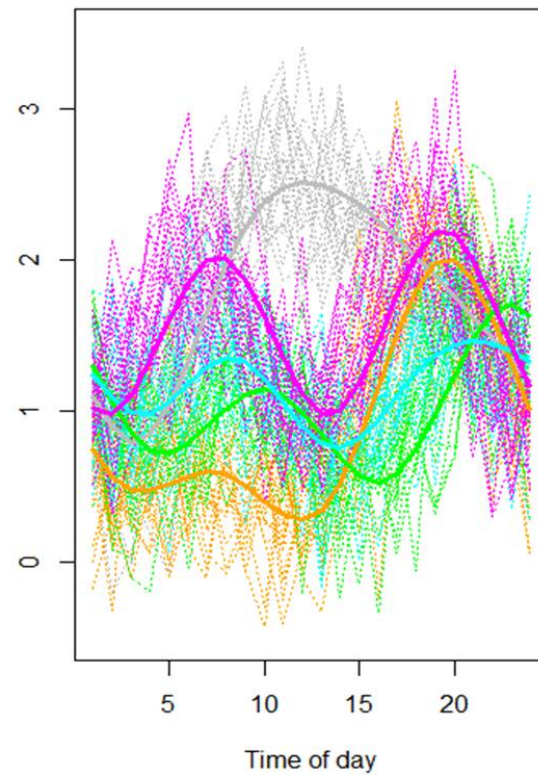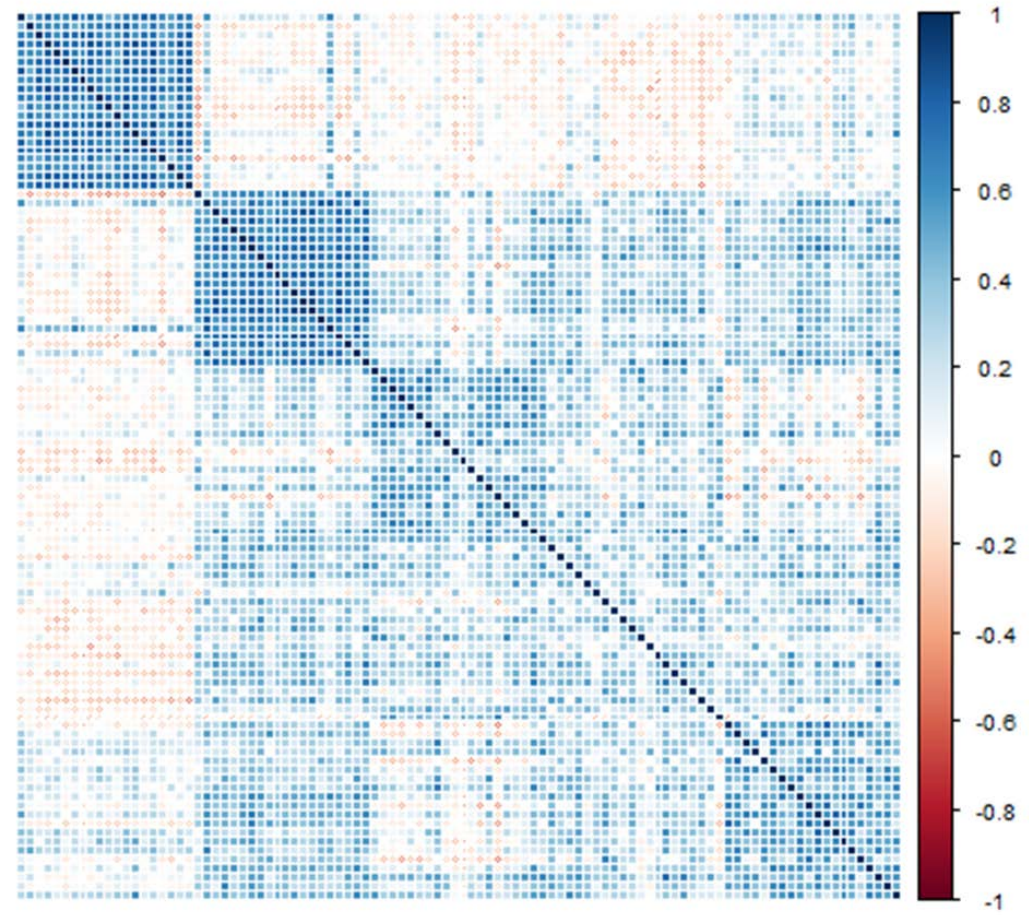# Let's Do the Dynamic Time Warp...
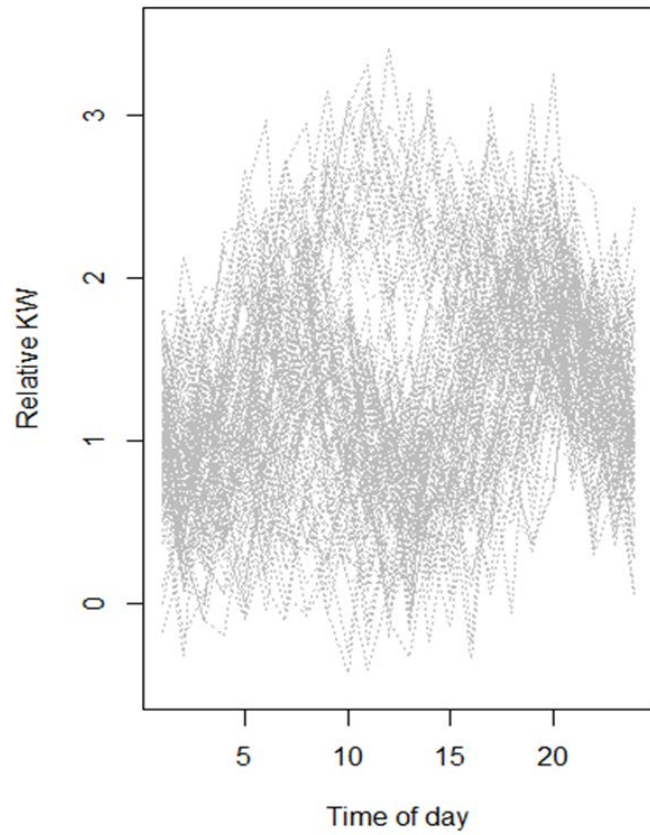
Greg Fanslow

VEIC / #BTVdatasci

Loadshapes...
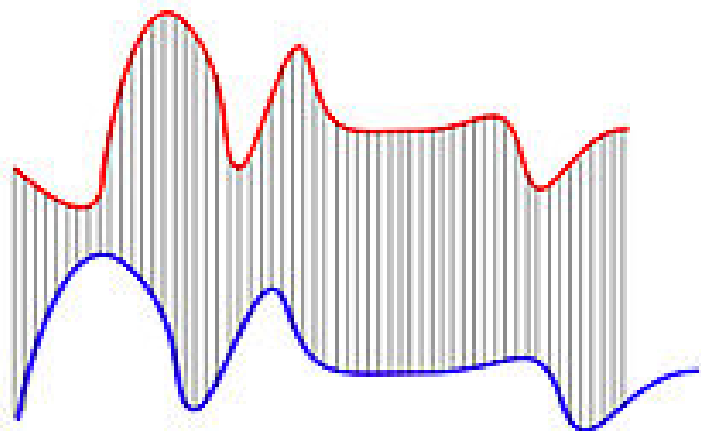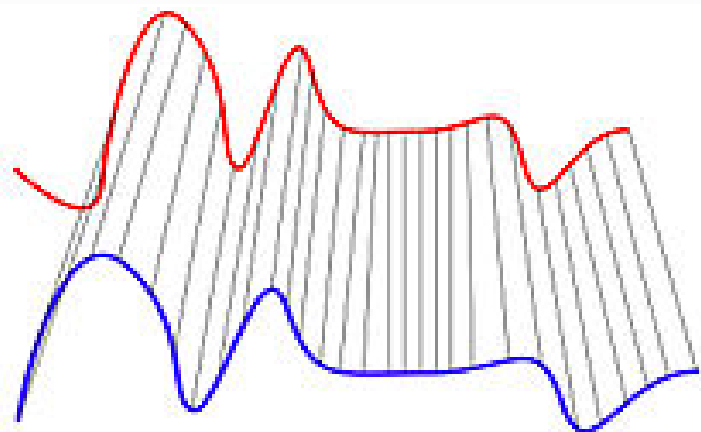
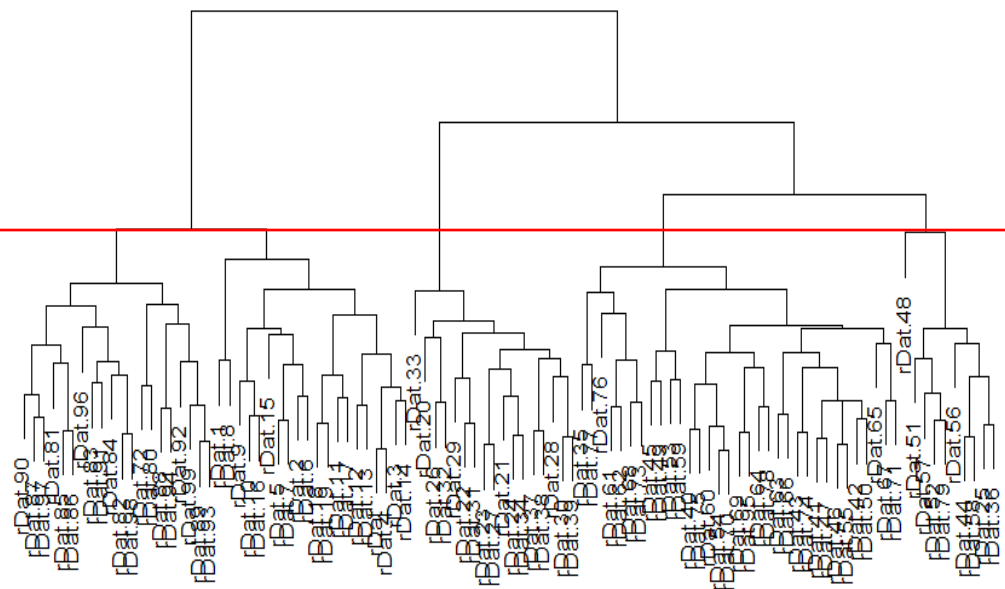Loadshape Discovery

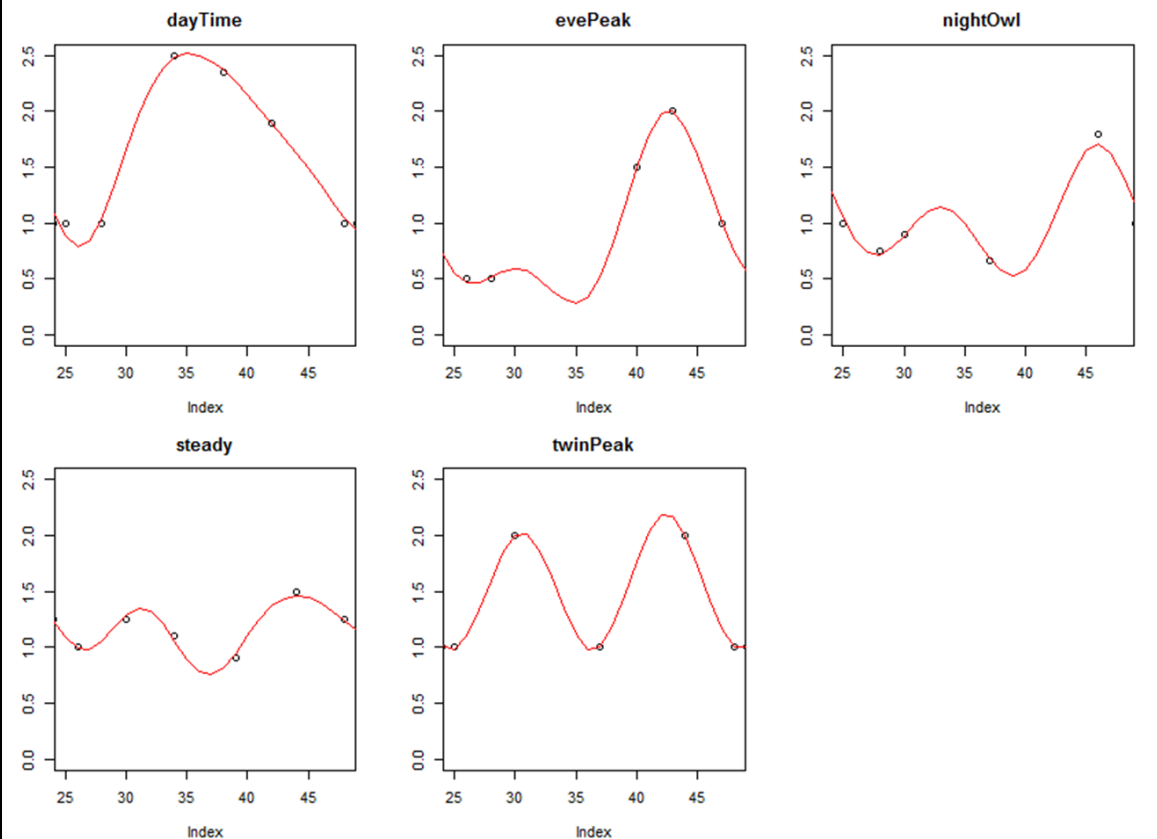Loadshapes...

Euclidean Matching
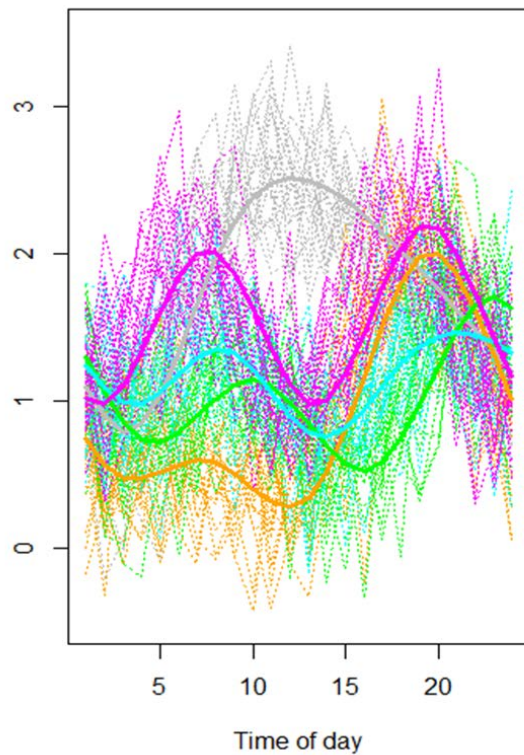
Dynamic Time Warping Matching

Wikipedia.org

Cluster Dendrogram

as.dist(distAll)
hclust (*, "complete")

```
> table(predicted = calls, actual = realClasses)
          actual
predicted  1  2  3  4  5
        1 20  0  0  0  0
        2  0 20  1  0  0
        3  0  0 17  5  0
        4  0  0  2 11  0
        5  0  0  0  4 20
> mean(calls == realClasses)
[1] 0.88
>
```


Loadshape Discovery

Time Warping in the Wild…