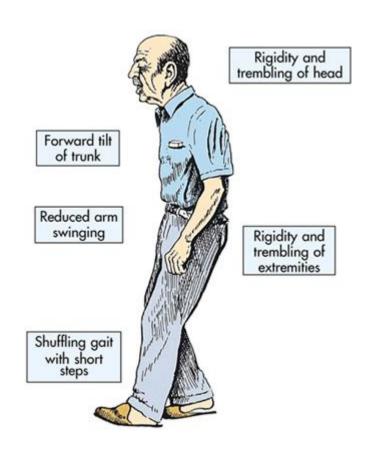
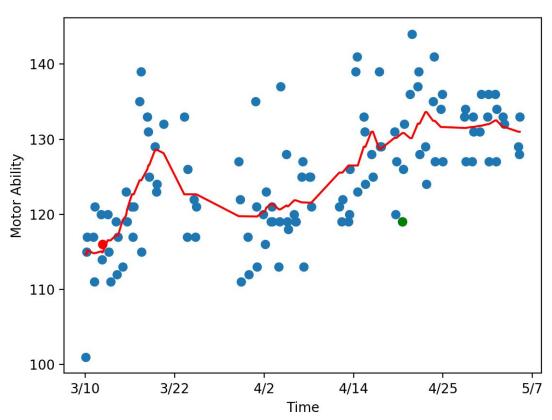
# Modeling Progression of Parkinson's Disease Using Smartphone Data

Chen-Yu Hsu, Rumen Hristov

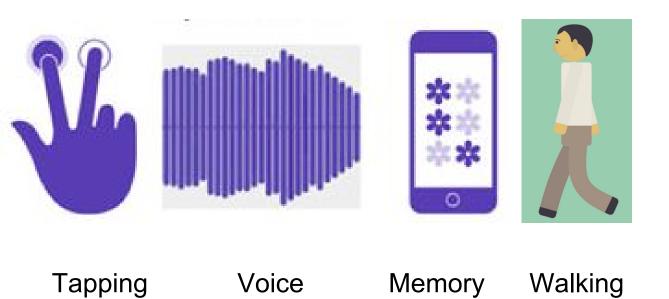
#### Parkinson's Disease



## Big variability



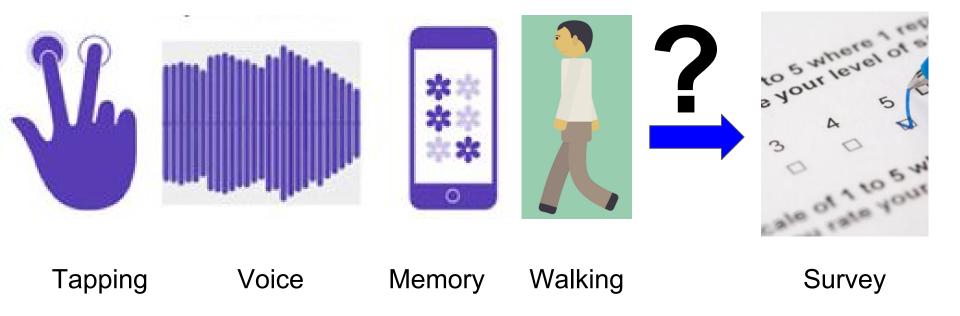
#### mPower Dataset



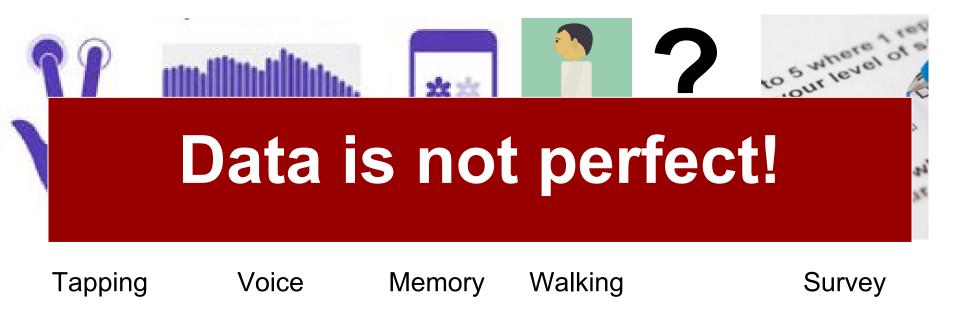


Survey

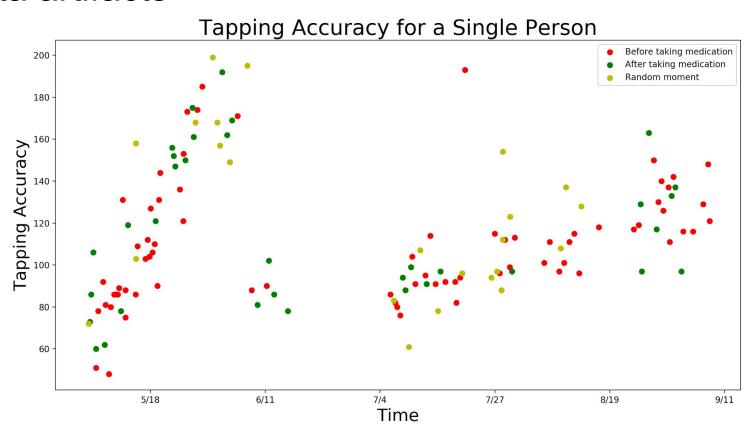
## Model wellness of PD patients using smartphones?



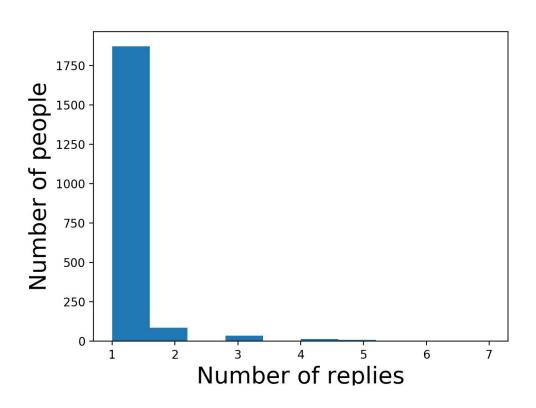
## Model wellness of PD patients using smartphones?



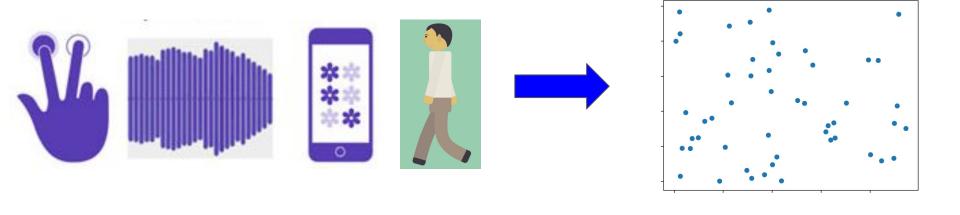
#### Data artifacts



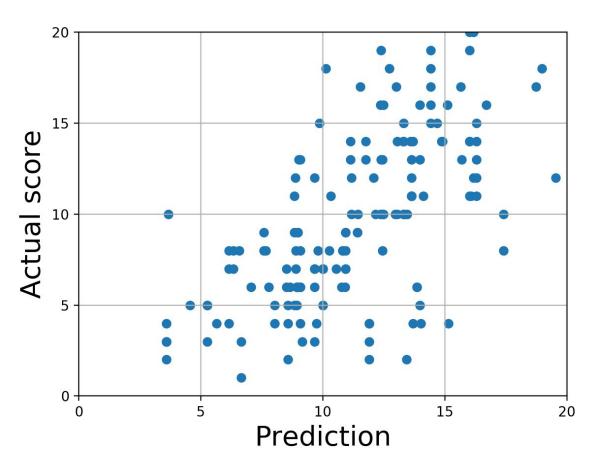
## **Survey Statistics**



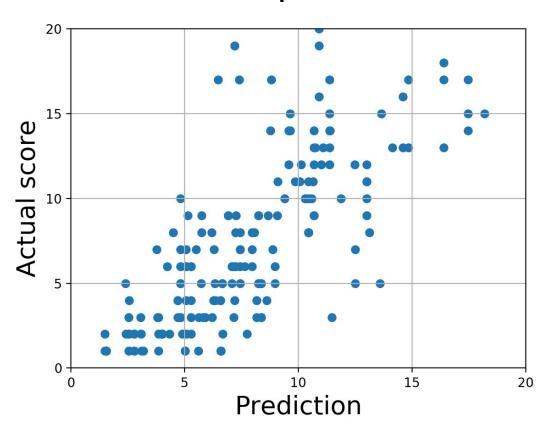
## Features



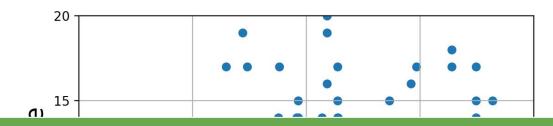
## Results



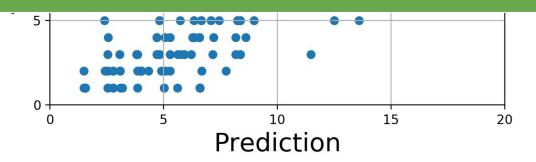
## Performance on Motor Experience Questions



## Performance on Motor Experience Questions



## Detects Clinically Meaningful Changes



## Performance on Non-Motor Experience Questions

