# **Project Presentation**

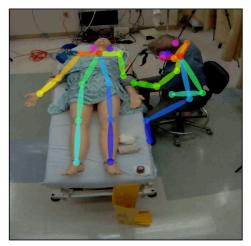


**Deirdre Scully** 

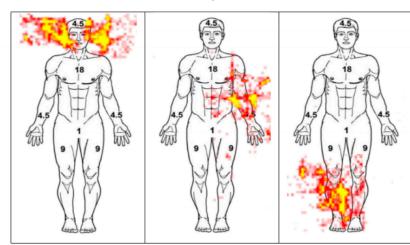
### Data



#### Intubation can only occur if the medic's hands are over / near the patient's head





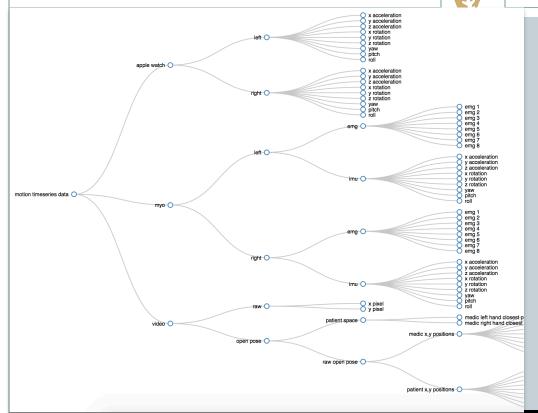


Heatmaps for intubation, IV and splinting, respectively.

Goal: compare input features classification performance across procedures

## Data





### Task: classify procedures

### Models

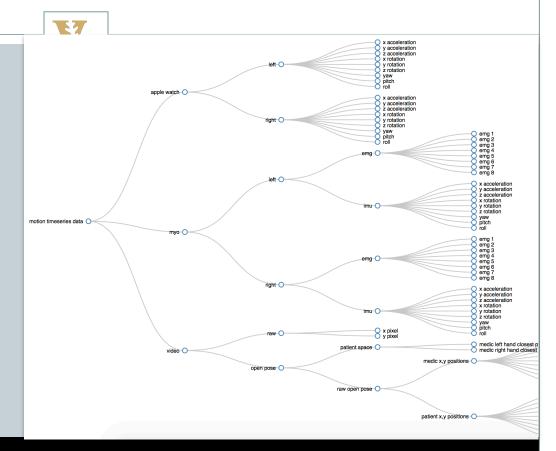


- Random Forest Classifier
- Cross Validation
- Individual time points are treated separately
- Time points of an instance vote for final classification
- Vote counts are used for % measures in evaluation of models

TimeStamps	Feature 1	 Feature 300
1		
2		
500000		

### Visualizations

- Encoding data types and organization
- Hierarchy encoded by x-axis and edge
- · Visualizes data options
- User can expand certain nodes
- Add accuracy scores and higher levels



### Visualizations

- Encoding correct and incorrect classifications by procedure
- Voting %s encoded by y-axis
- Classes predicted encoded by xaxis spaces and color hue
- Correct/incorrect classifications encoded as solid/striped boxes
- Actual classes encoded by same color hue
- Visualizes correct classifications and which classes are misclassified
- User can change the input set of features
- Context of all data same plot for comparison

