Design of study

Work in progress

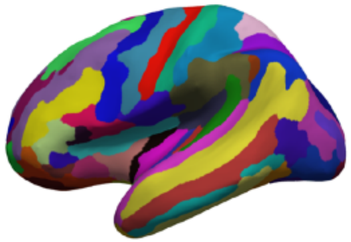
Supervised ML classification task

86 TN subjects with T1 and DWI imaging

Initial diagnosis of TN

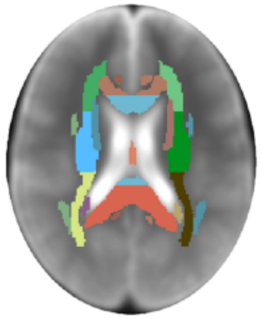
Freesurfer recon-all (GM)

FSL DTI estimation (WM)



- Cortical GM
- Thalamus
- Hypothalamus
- Hippocampus
- Amygdala
- Basal Ganglia

420 T1 imaging metrics in Destrieux atlas parcellation



- FA
- AD
- RD

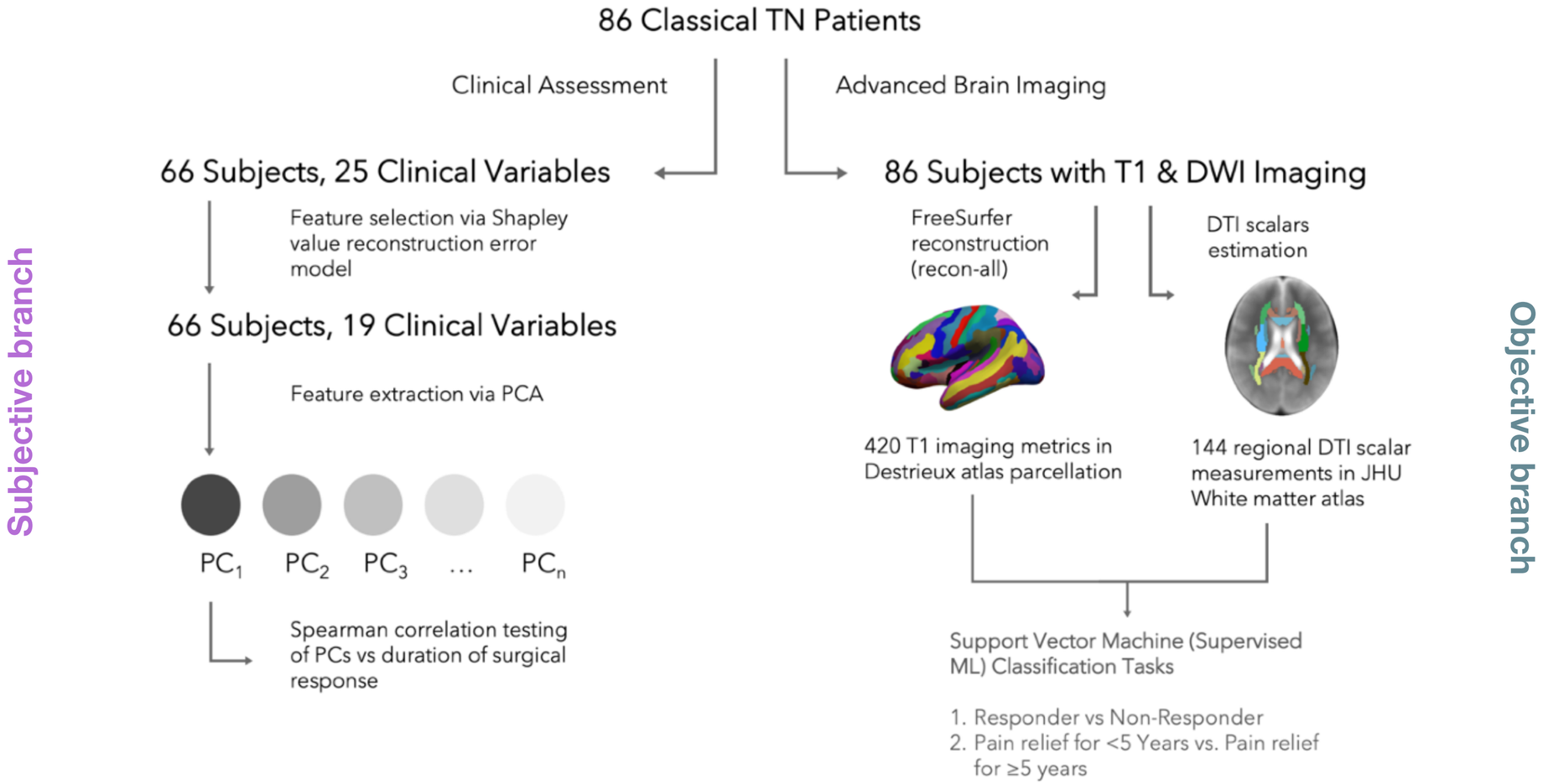
144 regional DTI scalar measurements in JHU White matter atlas

Duration of response

SVM Classification task
10-fold Cross-Validation

Design of study

Work in progress



TN: trigeminal neuralgia, PCA: principal component analysis, PC: principal component, DWI: diffusion weighted imaging, DTI: diffusion tensor imaging, JHU: Johns Hopkins University, ML: machine learning