

Disease Progression Analysis of Posterior Cortical Atrophy using a Data-Driven Model

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Parietal lobe

Motivation

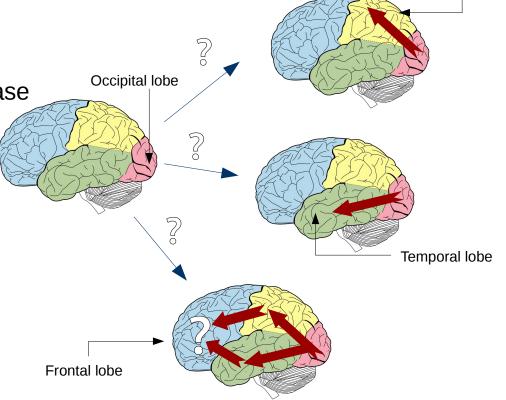
 Analyse the progression of Posterior Cortical Atrophy (PCA), which is a rare subtype of Alzheimer's Disease

Why is it important?

Early and accurate diagnosis

Identify the causes of the disease

Aid drug development





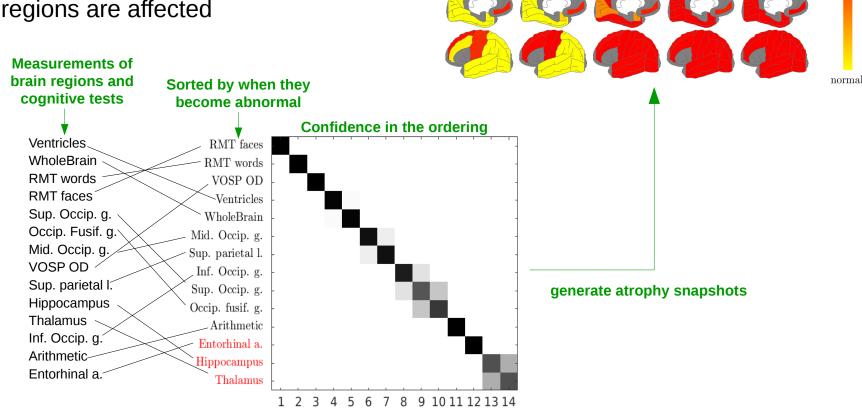
Stage 15

Stage 12

abnormal

Methods and Results

- Used an event-based statistical model
- Found out the order in which brain regions are affected



Event Position

Stage 3

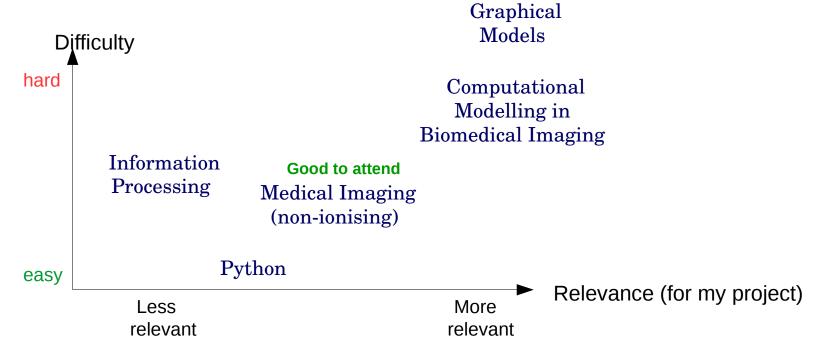
Stage 6

Stage 9



CDT Experience

Taught modules I've taken:



Intense 4-piece

coursework

Recommendation for future students:

Volunteer for an MRI scan!