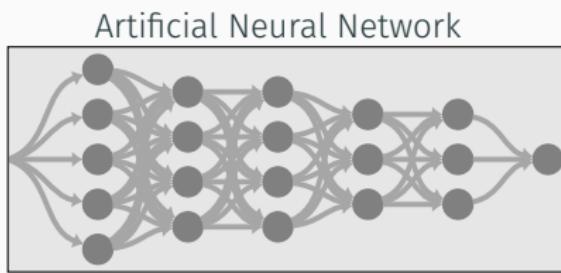


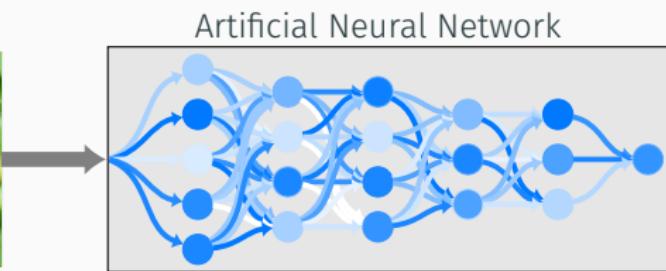
Explainable artificial intelligence in neuroimaging

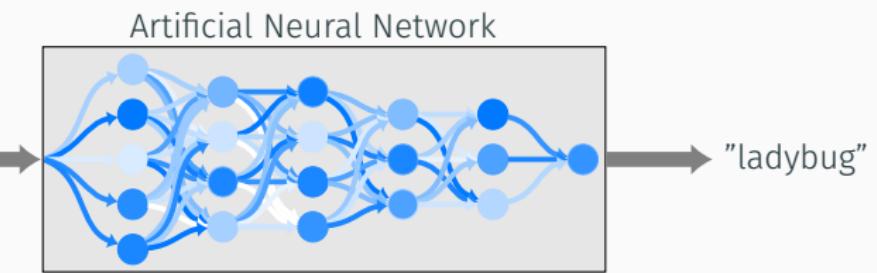
Characterizing individualized neuropathology

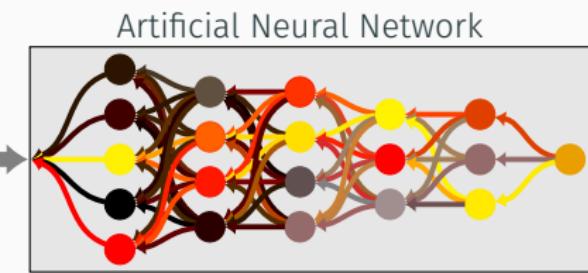
Esten H. Leonardsen
17.06.23



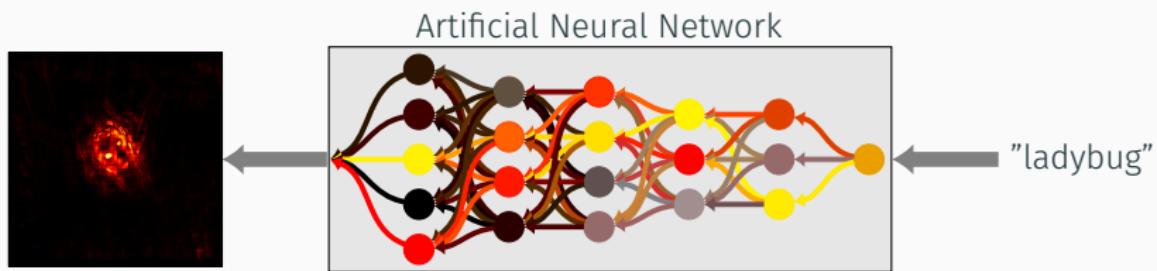


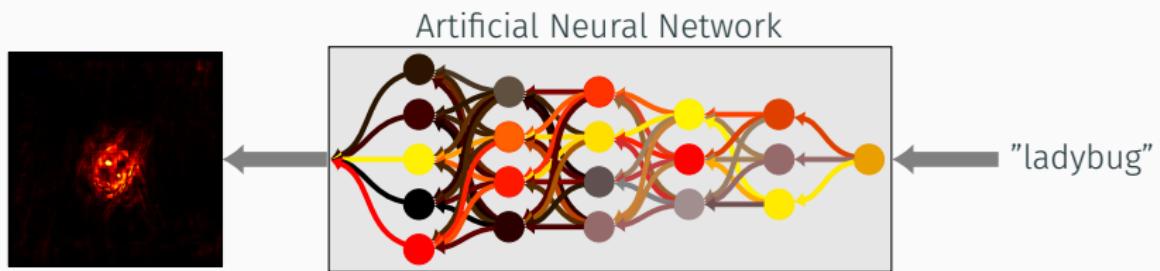




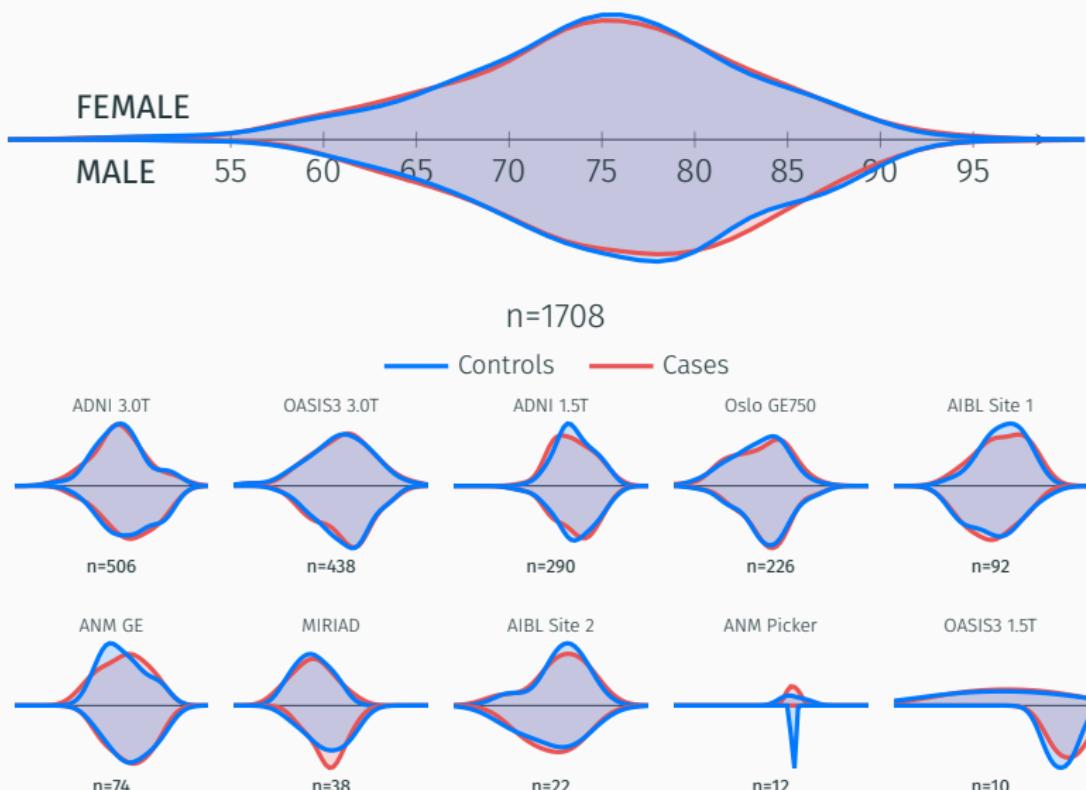


"ladybug"

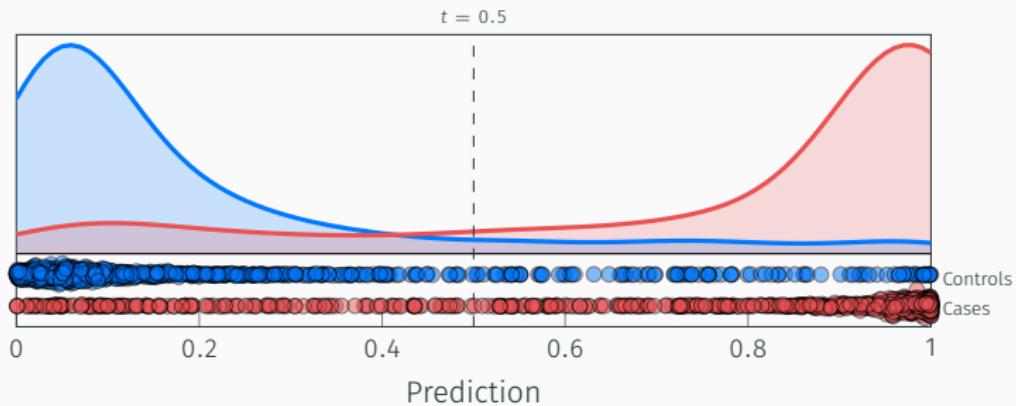




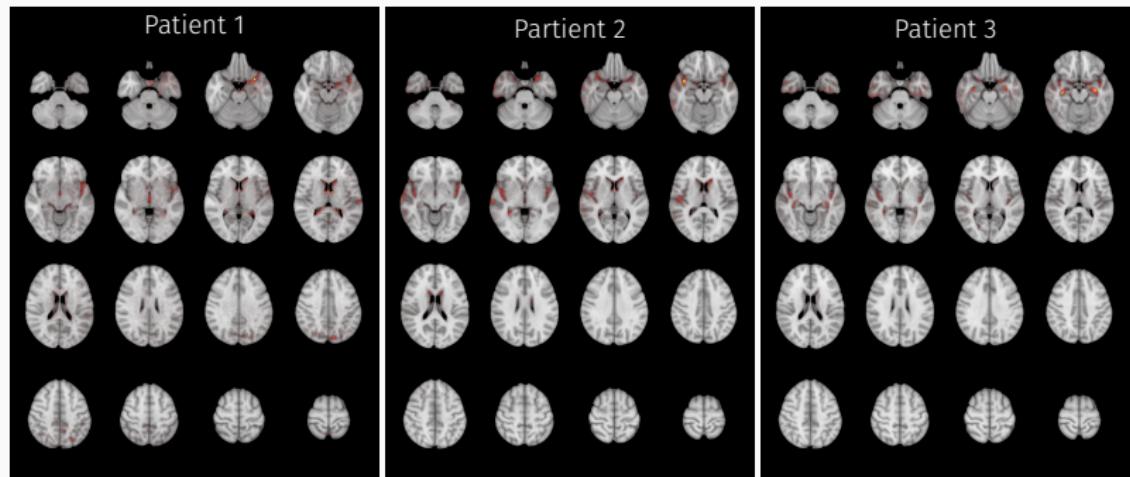
Dementia: Dataset



Dementia: Predictive performance

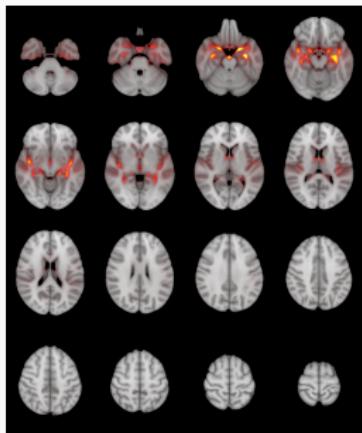


Dementia: Explanations



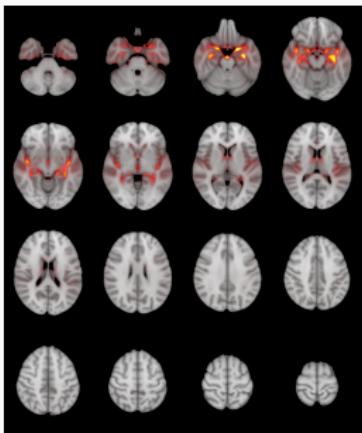
Dementia: Validation

LRP

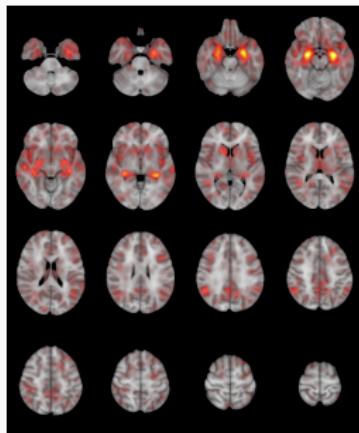


Dementia: Validation

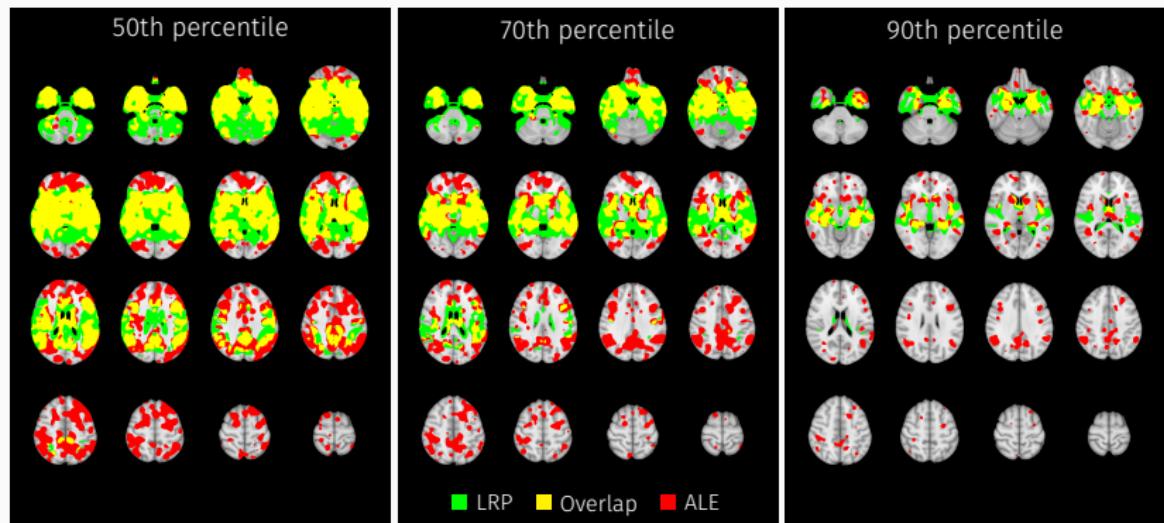
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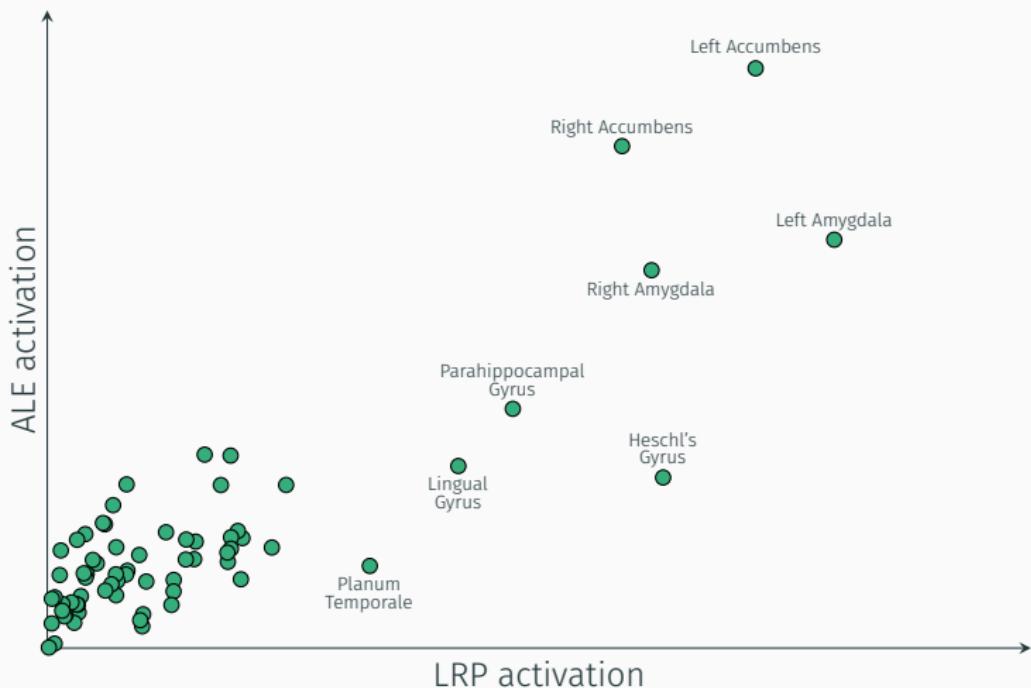
GingerALE



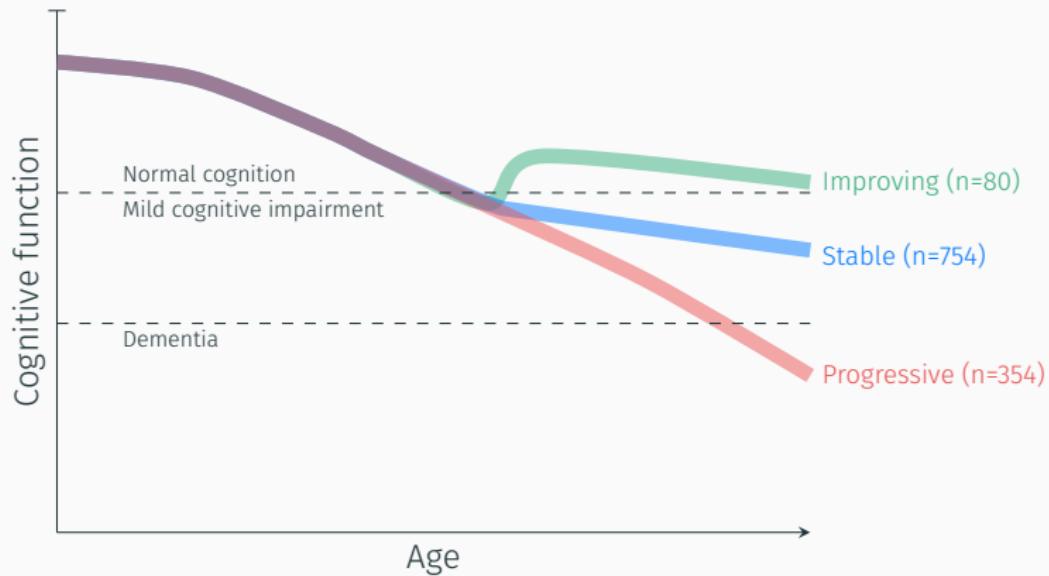
Dementia: Validation



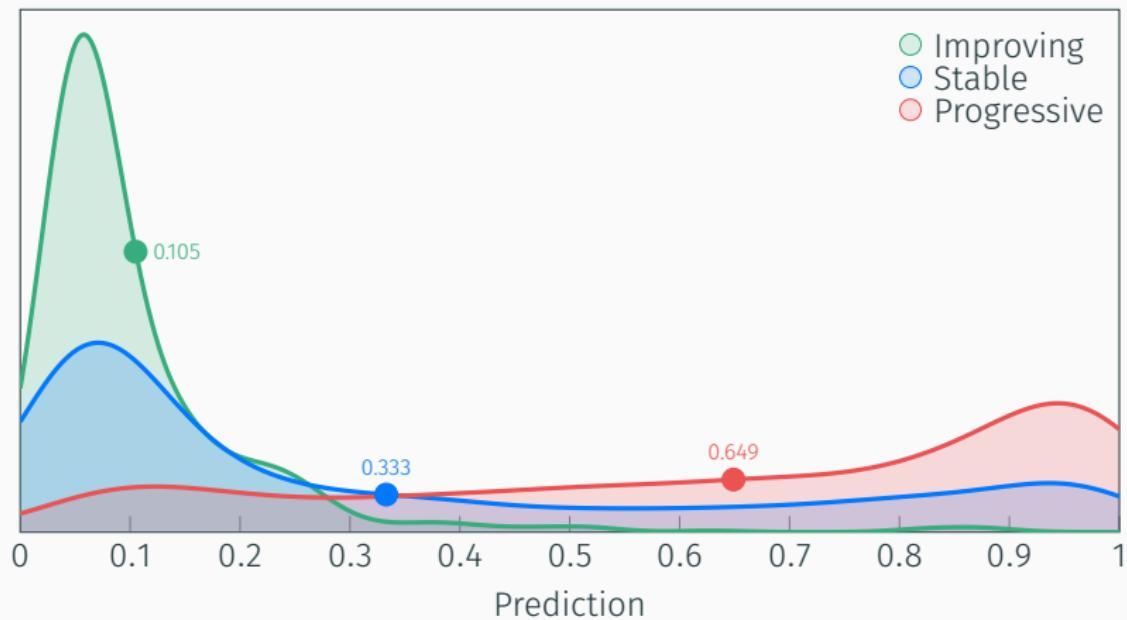
Dementia: Validation



Mild cognitive impairment: Clinical use case

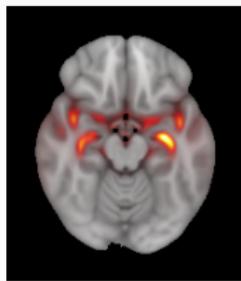


Mild cognitive impairment: Prediction

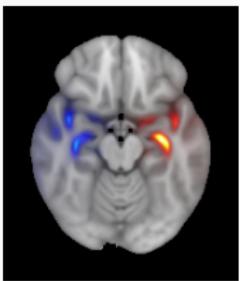


Mild cognitive impairment: Relevance maps

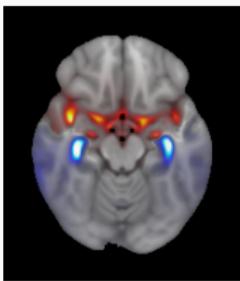
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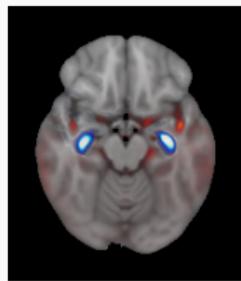
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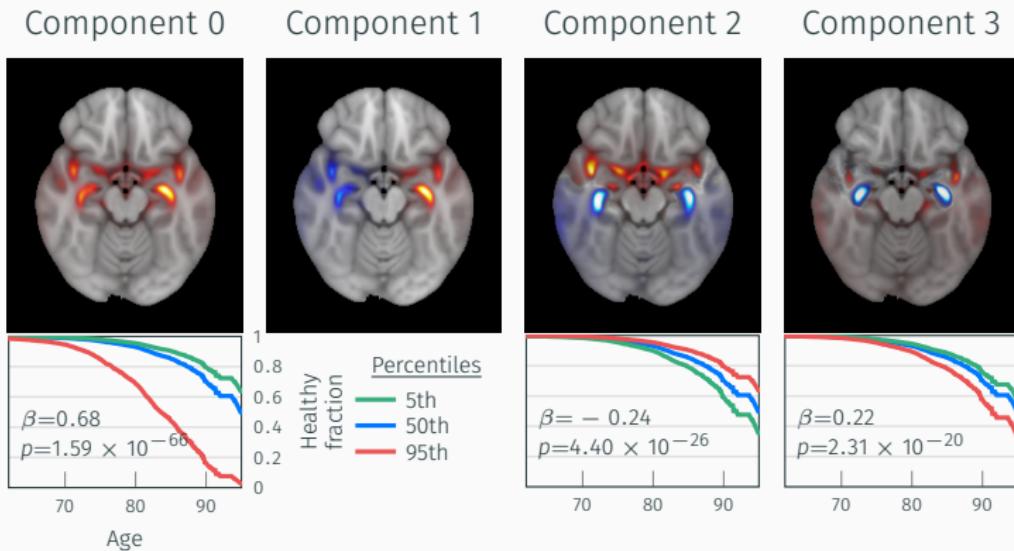
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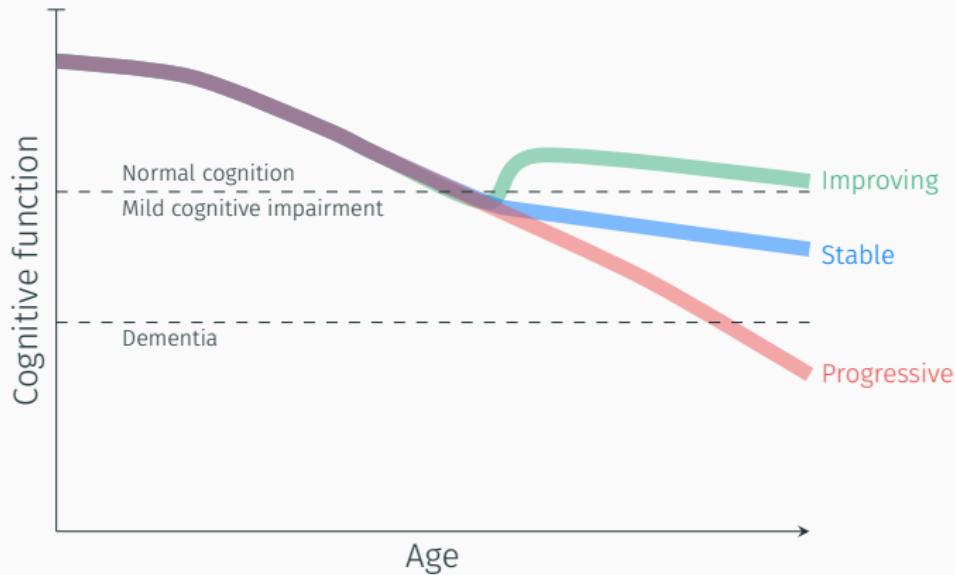
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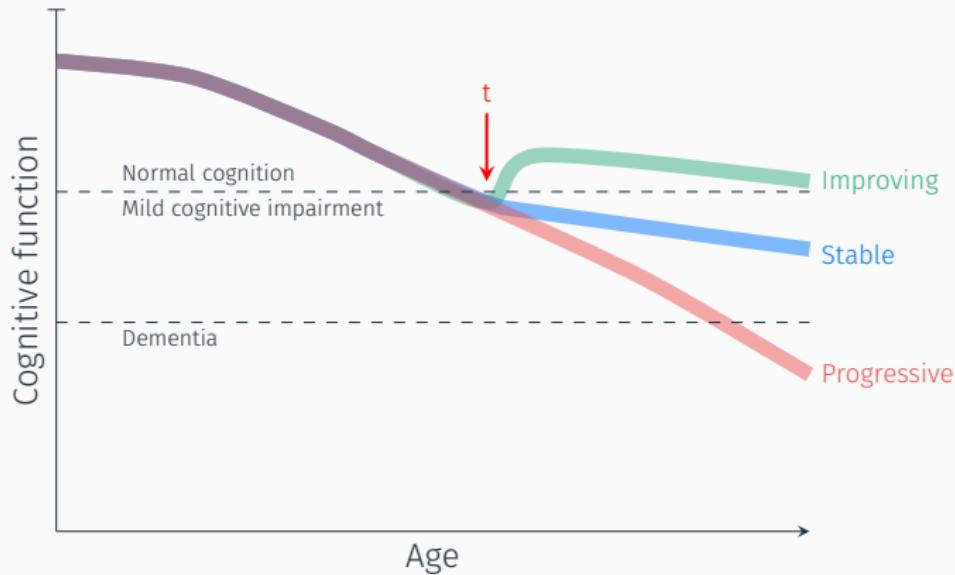
Mild cognitive impairment: Survival analyses



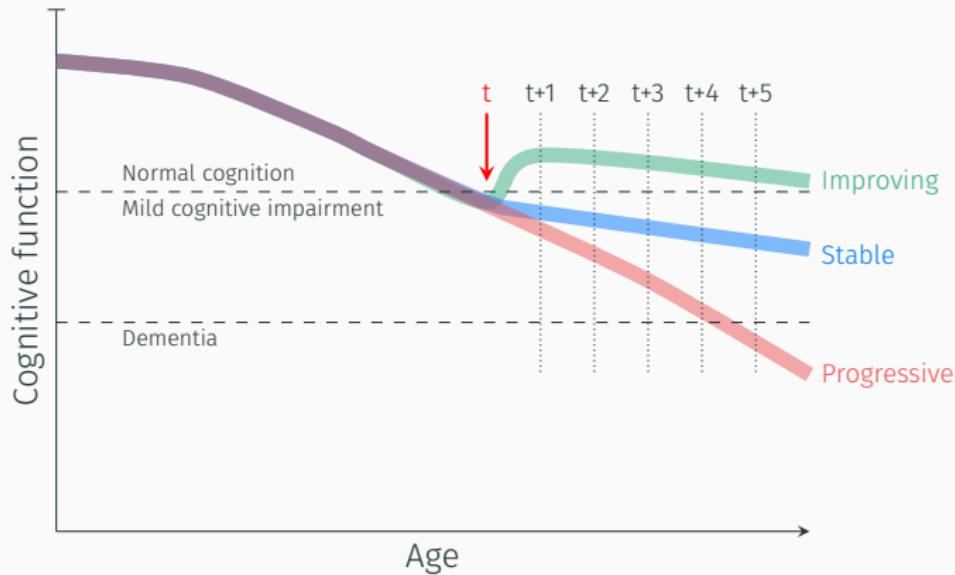
Mild cognitive impairment: Prognosis



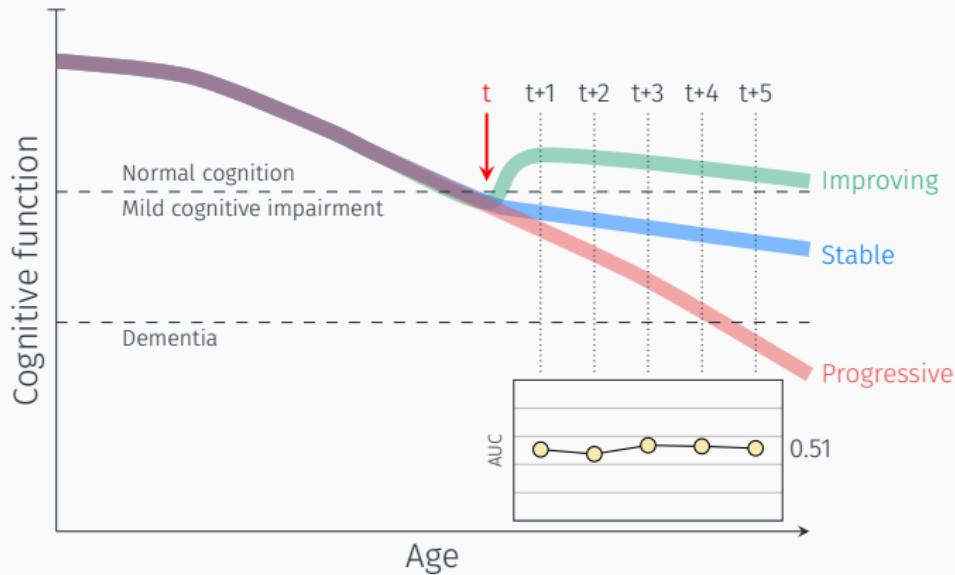
Mild cognitive impairment: Prognosis



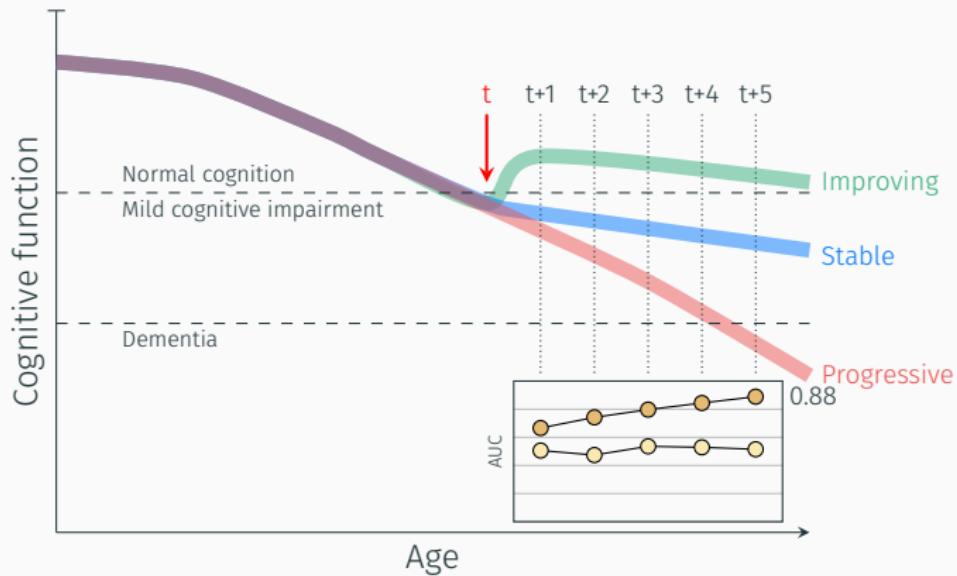
Mild cognitive impairment: Prognosis



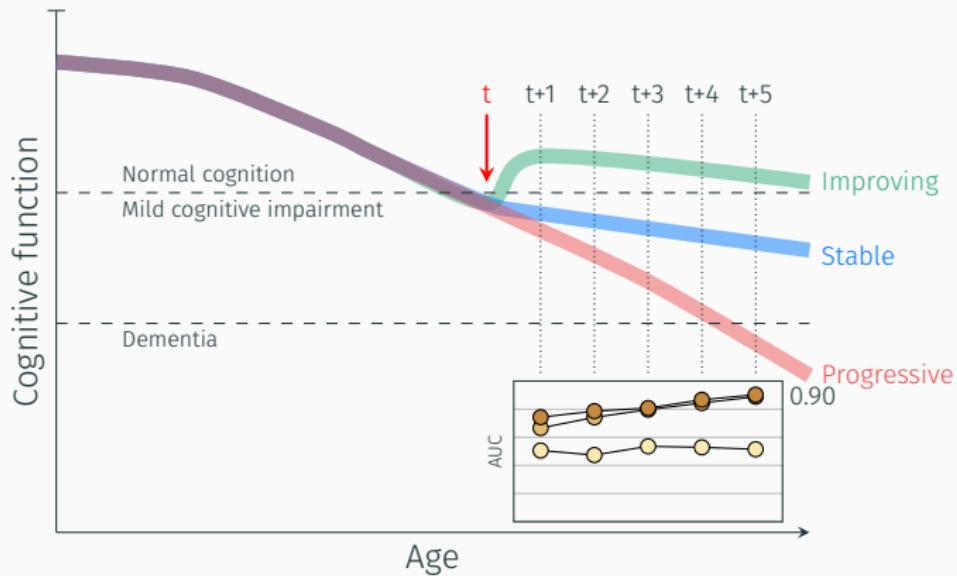
Mild cognitive impairment: Prognosis



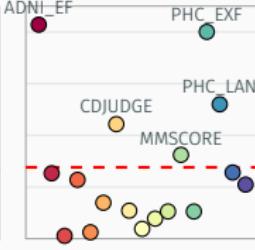
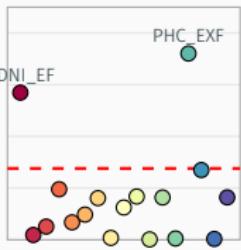
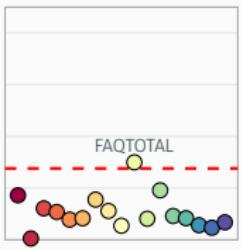
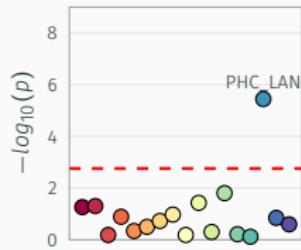
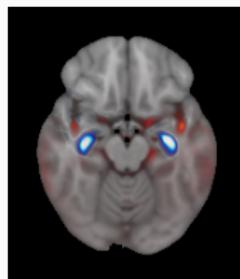
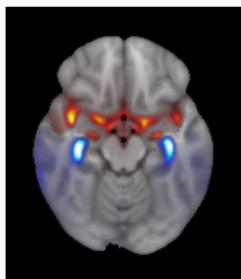
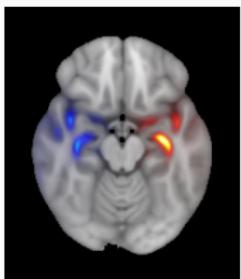
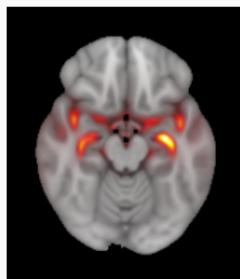
Mild cognitive impairment: Prognosis



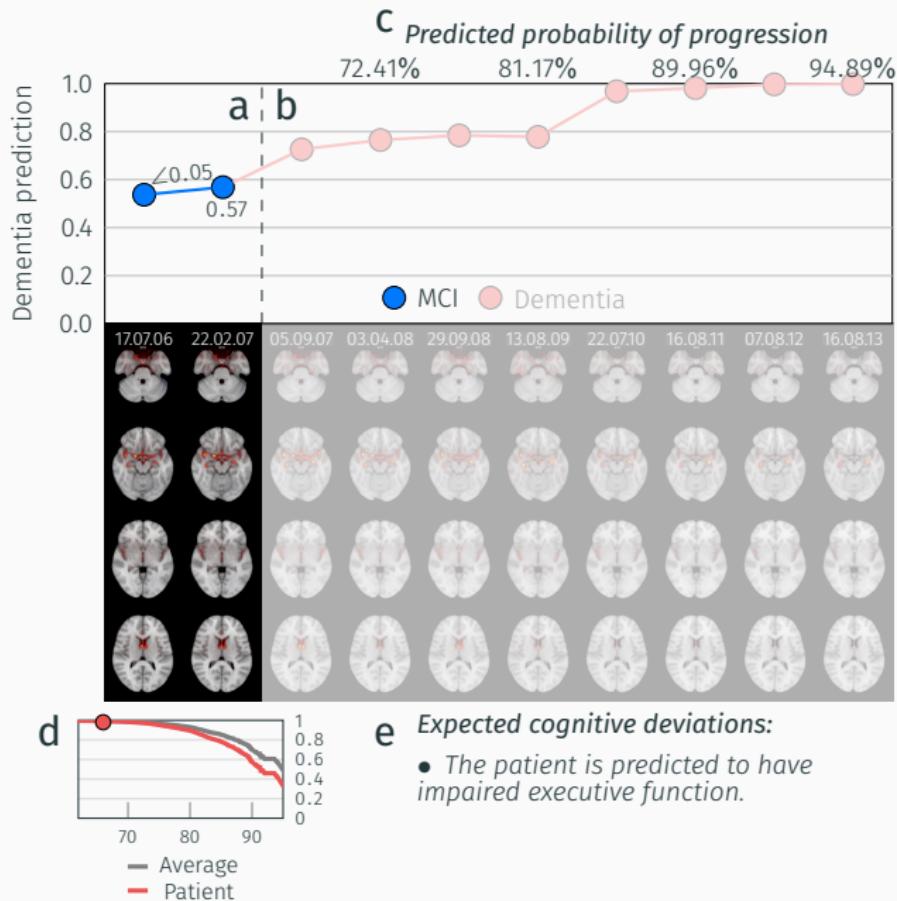
Mild cognitive impairment: Prognosis



Mild cognitive impairment: Correlation with cognitive scores

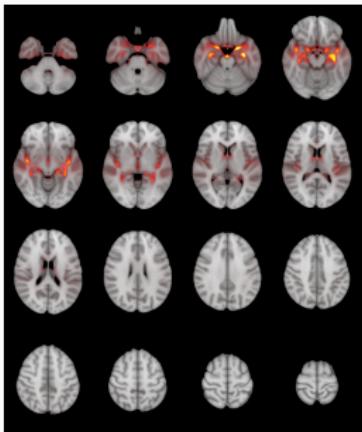


Mild cognitive impairment: Morphological record



Future directions

Dementia



Multiple sclerosis

