

Alzheimer's Disease Neuroimaging Initiative

An introduction @ MTL Brainhack School

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What's ADNI?

- Public dataset with biomarkers for ~1600 individuals along the Alzheimer's disease spectrum
 - Cognitively normal older adults, patients with mild cognitive impairment, Alzheimer's disease patients
- Multisite
- Longitudinal
- Phases
 - ADNI1
 - ADNIGO
 - ADNI2
 - ADNI3

What kind of data is there?

- MRI
 - T1-weighted structural images
 - T2-FLAIR
 - T2*
 - Resting-state functional MRI
 - Diffusion
 - Arterial spin label
- PET
 - FDG
 - Amyloid
 - Tau
- Biospecimens
 - Cerebrospinal fluid
 - Blood
 - Urine
- Neuropsychological assessments
 - Cognition
 - Behavioural
- Genetics
- Clinical information
 - e.g. history of stroke, medications

What kind of data is there?

What if I don't want to work with raw images?

- There are data releases with preprocessed QC-ed images.
- Many research groups have released data derivatives (e.g. VBM, cortical thickness, hippocampal volumes, etc) which are available through the ADNI portal.

How can I access this data?

Get an account:

<http://adni.loni.usc.edu/data-samples/access-data/>

- Data use agreement

Links and other info

All about ADNI: <http://adni.loni.usc.edu/>

If you have questions, message me on slack @angelatam