

## DESCRIPTION of YOUR TECHNOLOGIES

NeuroImaging Lab (NiL) at Centre for Healthy Brain Ageing (CHeBA), School of Psychiatry, UNSW Medicine is one of the leading labs in neuroimaging research in Australia, especially in neuroimaging of ageing brain.

<https://cheba.unsw.edu.au/group/neuroimaging>

## SPECIALISTS IN NeuroImaging

NiL hosts post-doc fellows, PhD and Masters students.

NiL's strength is NeuroImaging in ageing brain. We study structural and functional MRI. We also study amyloid PET imaging.

## THE TOOLS OF OUR TRADE

Neuroimaging analysis of both functional and structural MRI, including many modalities such as T1-weighted, FLAIR, ASL, DTI, SWI and resting-state fMRI.

We have recently developed a neuroimaging software for analysing cerebral white matter lesions, including white matter hyperintensity, lacunes, dilated perivascular space. It is a fully automated software pipeline, designed for easy use. It is now freely available online:

<https://cheba.unsw.edu.au/group/neuroimaging-pipeline>

## COMPETITIVE ADVANTAGES OF YOUR TECHNOLOGIES

### An example is our software:

- A fully automated pipeline open and free to all neuroscience researchers and clinicians for research purposes.
- This pipeline provides an uniform and automated method of WMLs quantitation, with data on lesion severity, topography and mapping to fibre tracts.
- Parallel-computing enabled.
- Including a longitudinal module.
- Easy to use.

## SELECTED RECENT PROJECTS and TRACK RECORD

Insert any contract research or industry related working experience here

<https://cheba.unsw.edu.au/group/neuroimaging-pipeline>

## OUR EXPERTS

### Neuropsychiatrists/Geriatricians/Neuroscientists

Professors Perminder Sachdev & Henry Brodaty

Dr. Adith Mohan

Dr. Matthew Paradise

Dr. Rebecca Koncz

### Neuroscientists/biomedical Engineers

Associate Prof. Wei Wen

Dr. Jiyang Jiyang

### Neuroscientist/Biostatistician

Dr. Anbupalam Thalamuthu