

Welcome !

Master

Neuropsychology

17 November 2018

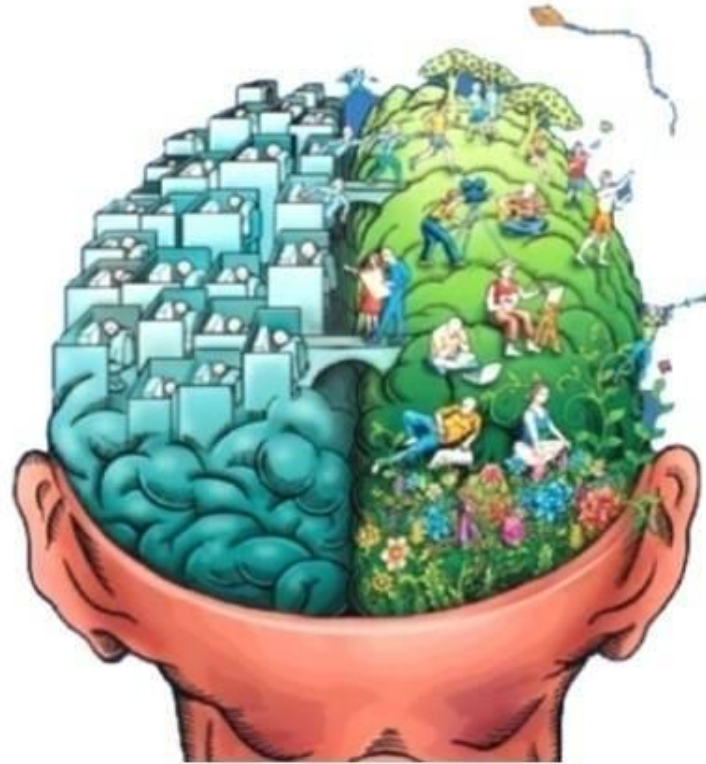
Sven Stapert

Faculty of Psychology and
Neuroscience

Department of Neuropsychology
and Psychopharmacology



Neuro-Psychology?



a specialist in cognition and behaviour

Neuropsychology

Brain and Behaviour



Study of brain behaviour relationship(s)
trying to understand how the human brain processes information
that result in psychological processes and behaviour

Neuropsychology

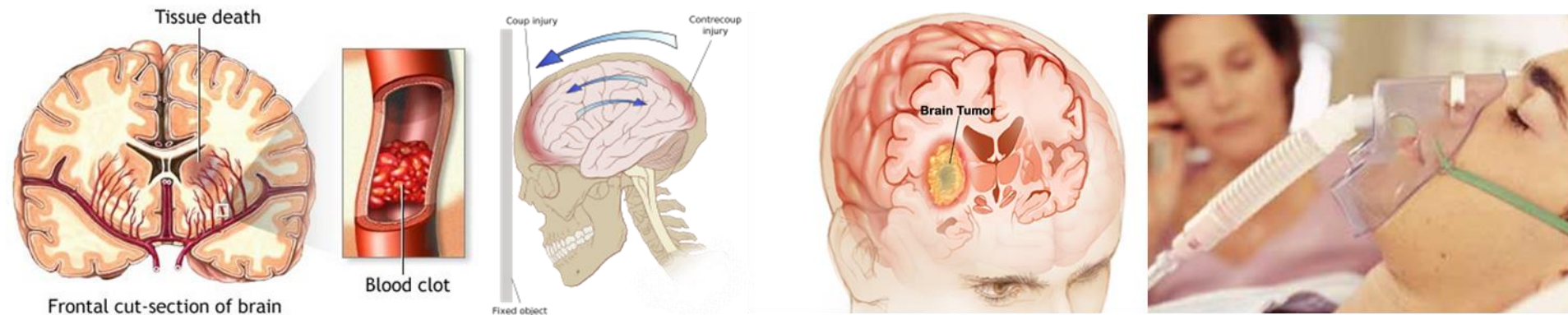
Brain and Behaviour



Normal, healthy brains and lifespan development

Neuropsychology

Brain and Behaviour



Consequences of acquired brain injury

Neuropsychology

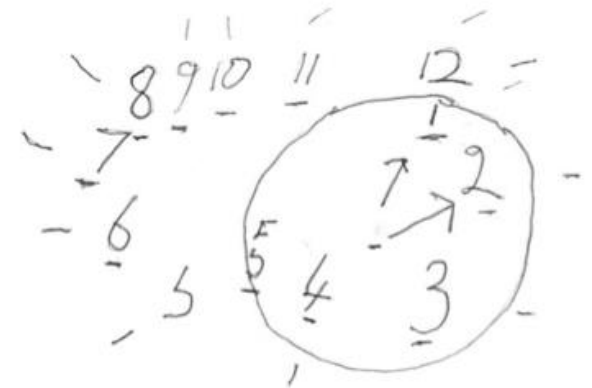
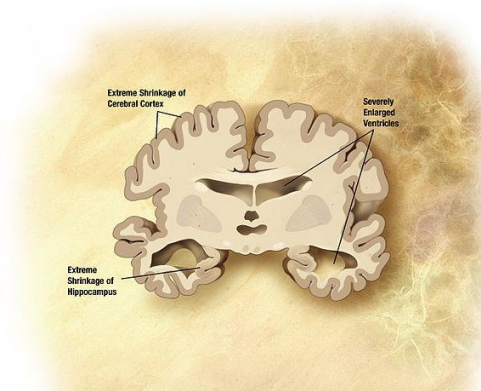
Brain and Behaviour



Developing, exploring and learning

Neuropsychology

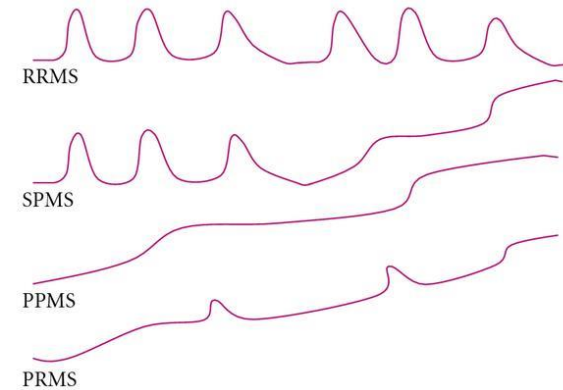
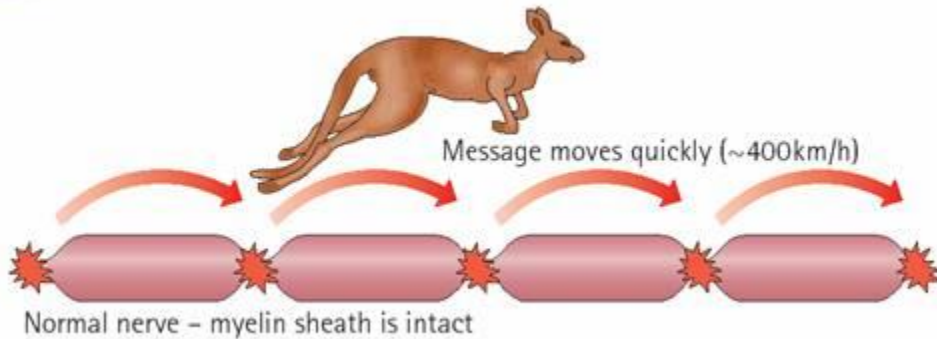
Brain and Behaviour



Brain disease(s)

Neuropsychology

Brain and Behaviour



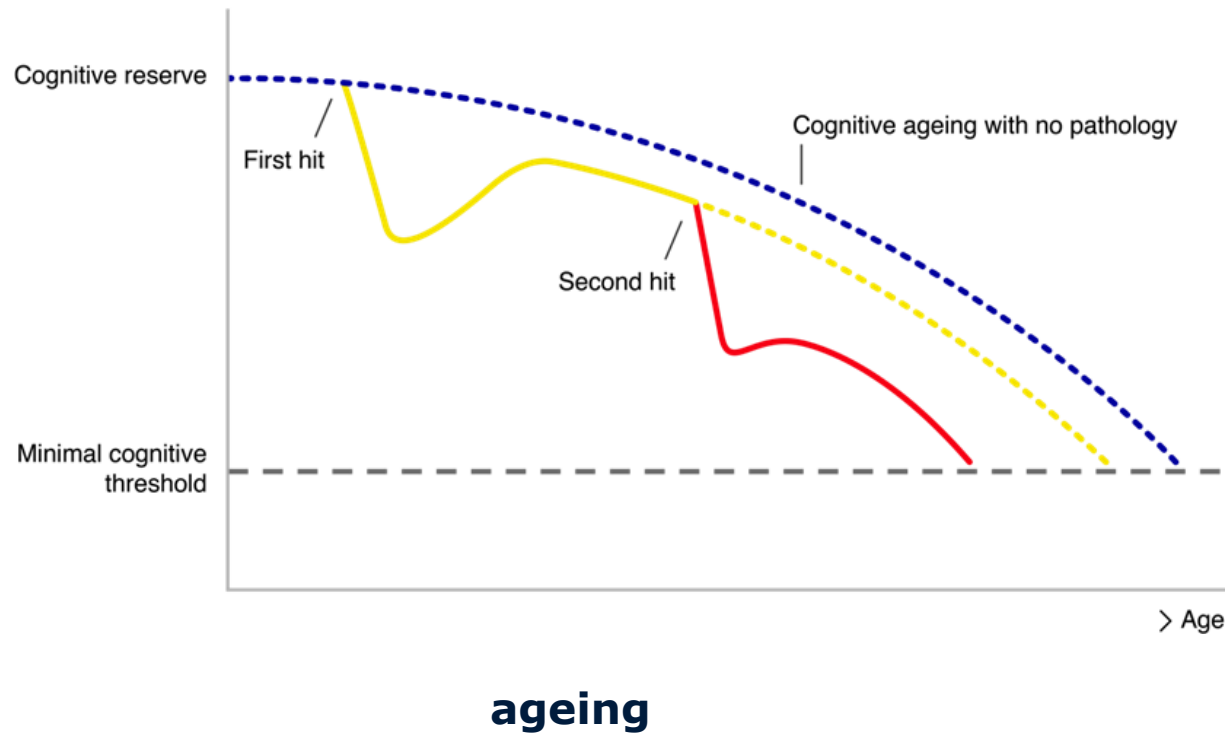
Clinical subtypes of MS

Brain disease(s)

Neuropsychology

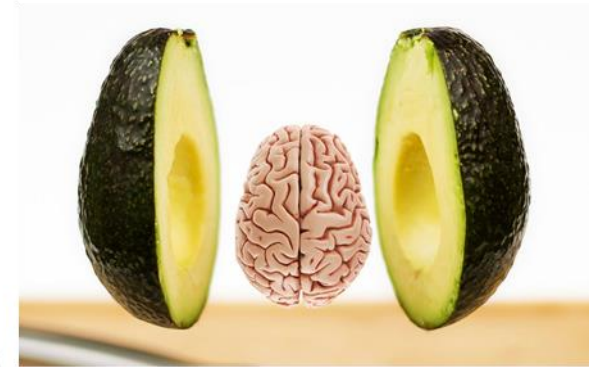
Brain and Behaviour

Graphical Representation of Accelerated Cognitive Ageing



Neuropsychology

Brain and Behaviour



Protecting, enhancing and cognitive training

RAM

KAP

Neuropsychology

Brain and Behaviour

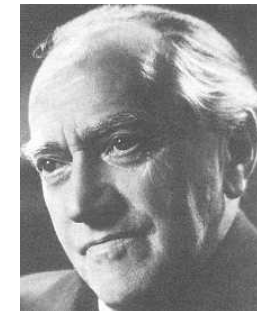
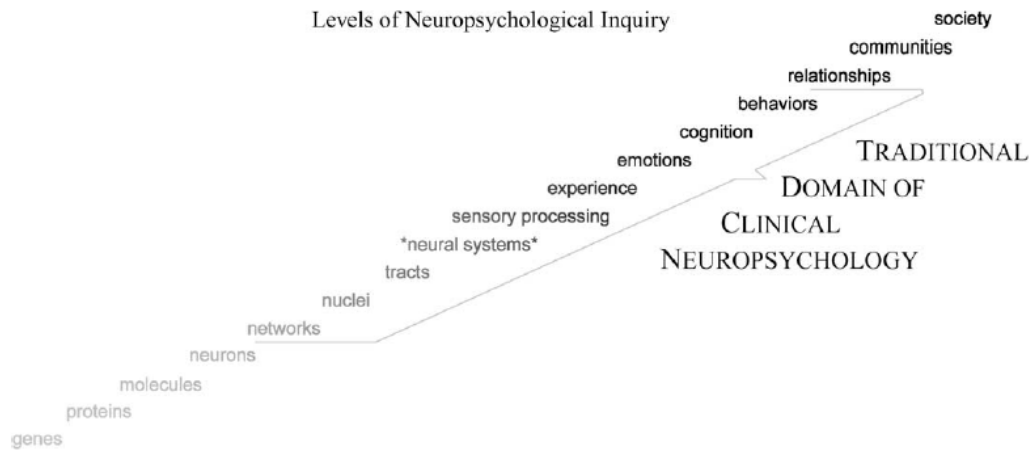
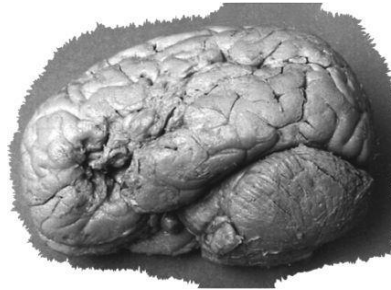


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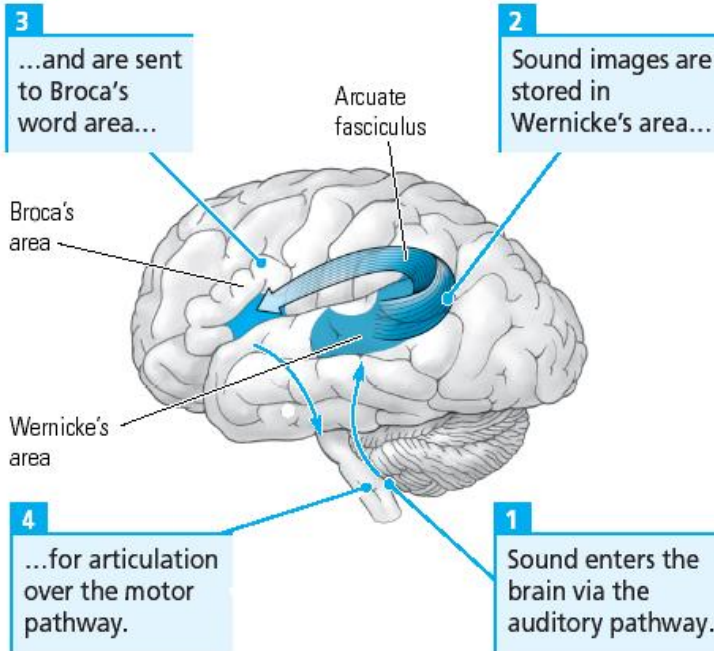
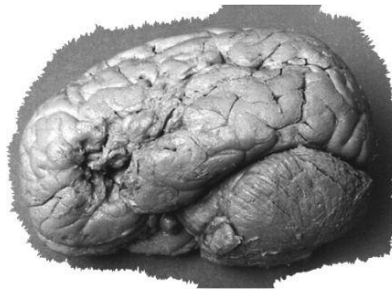


Protected???

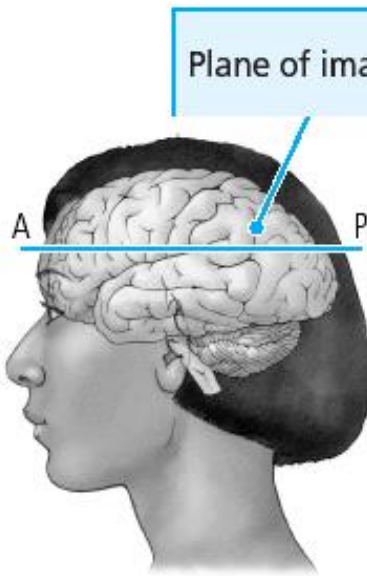
A history of a young psychology discipline



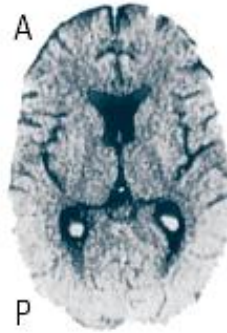
A history of a young psychology discipline



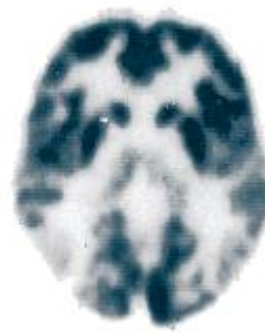
How the brain relates to (ab)normal behaviour



Computerized tomography (CT scan)



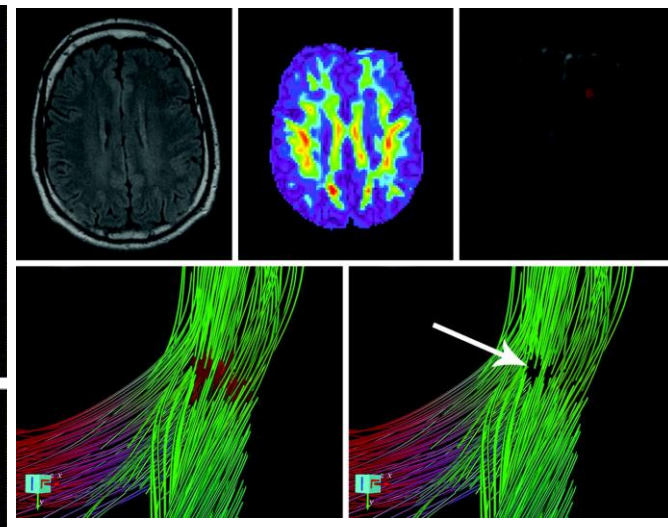
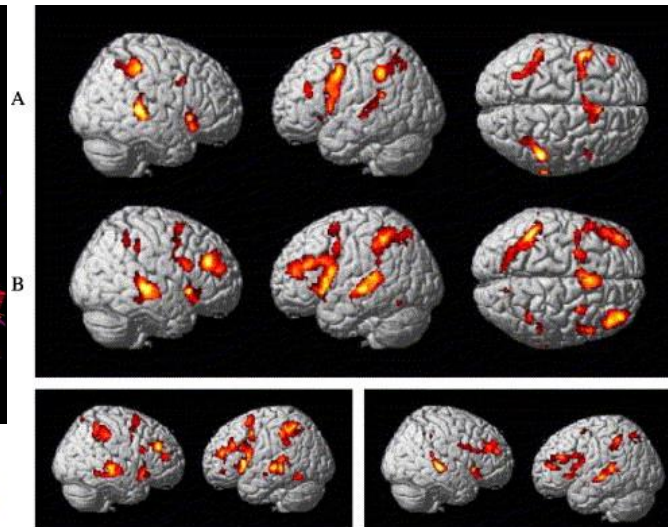
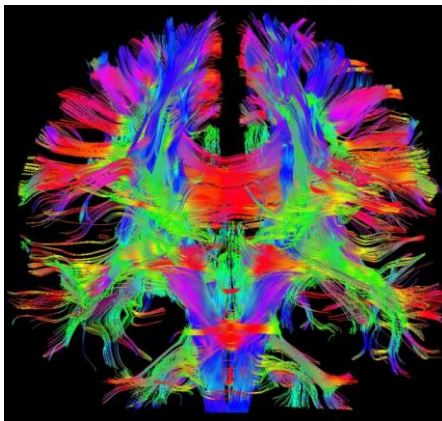
Positron emission tomography (PET scan)



Magnetic resonance imaging (MRI scan)



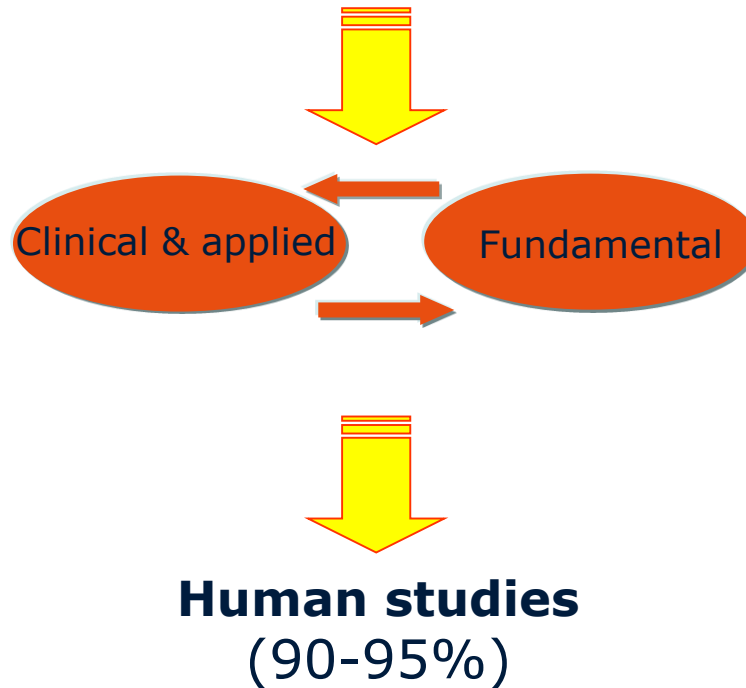
Photograph



Master Neuropsychology

Interdisciplinary specialisation
involving:

Experimental- and clinical Neuropsychologists,
Psychiatrists, Biologists & Psychopharmacologists



Specialisation Neuropsychology (1 year)

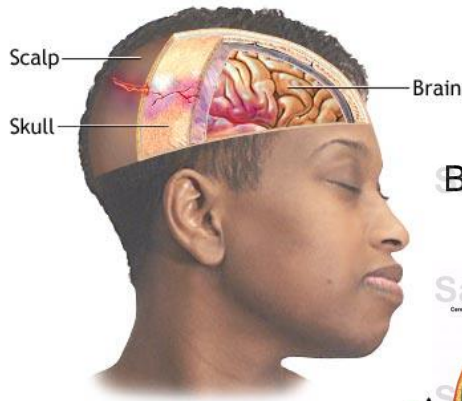
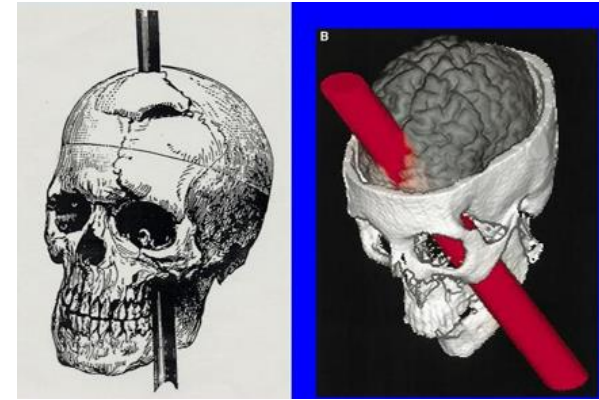
- Core courses; 4x
- 3 Practicals
- Research internship & Master thesis
or
- Clinical internship & Master thesis



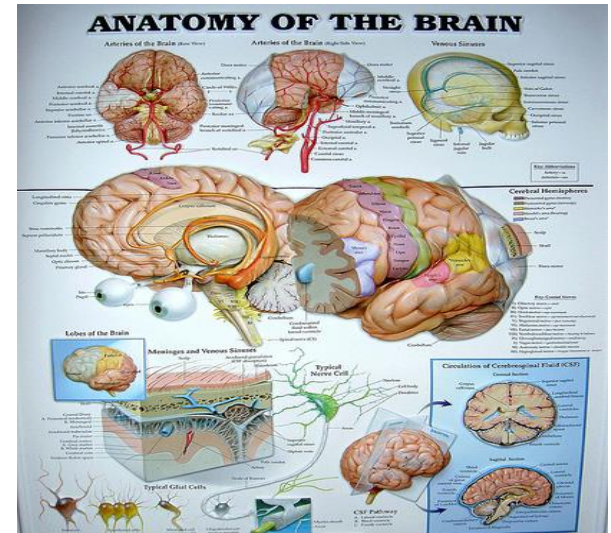
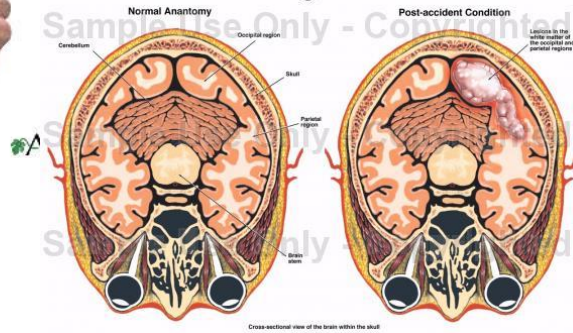


Prof Dr. Sonja Kotz
FPN, NP&PP UM

Brain Damage



Brain Damage - Injury with Lesion
in the Occipital and Parietal
Regions

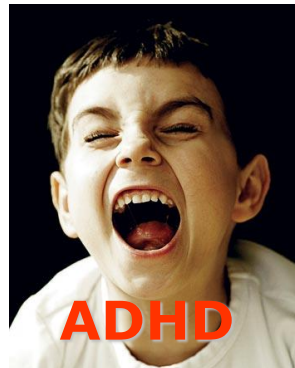




Dr. Michael Schwartze
FPN, NP&PP UM

Behavioural disorders

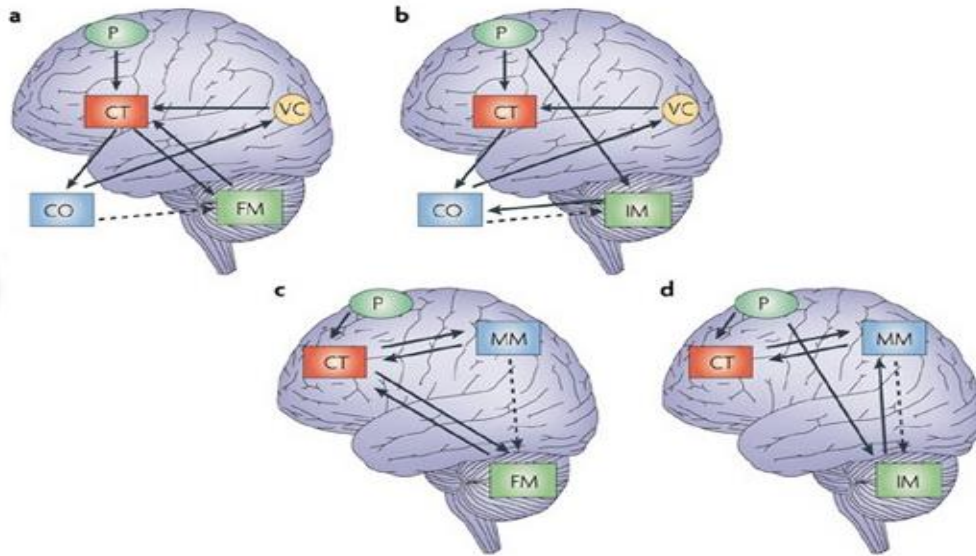
Behavioural manifestations of neurological, neuropsychiatric
and developmental disorders





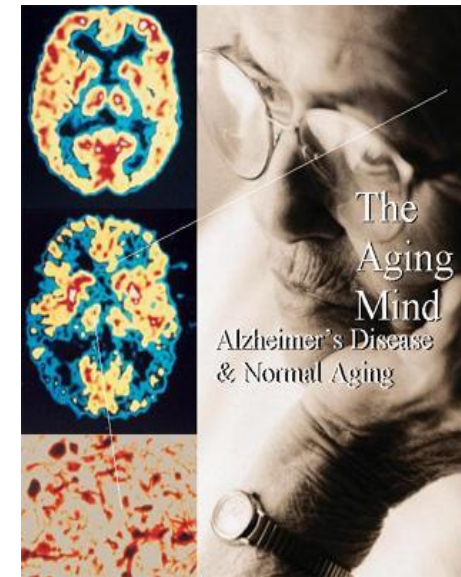
Dr. Lisbeth Evers
FPN, NP&PP UM

Arousal & Attention

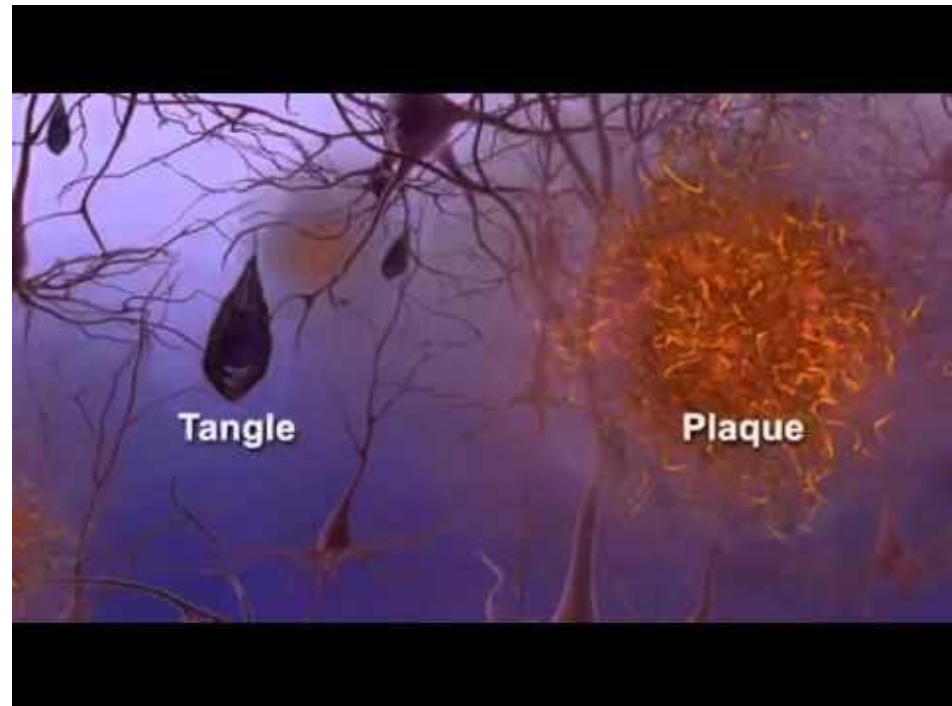
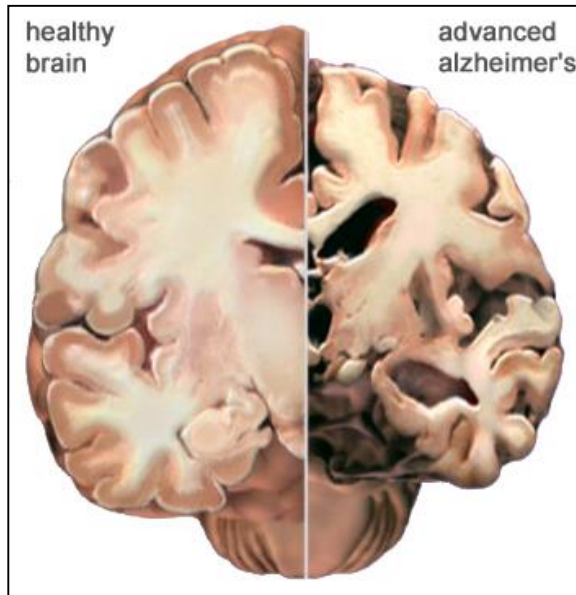




Dr. Martin van Boxtel
FHML, UM



Cognitive ageing



Specialisation Neuropsychology (1 year)

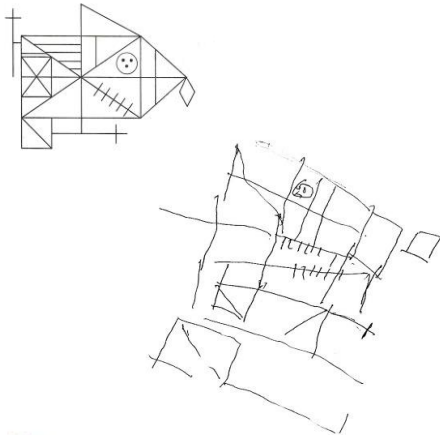
- Core courses
- Practical/skill trainings
- Research internship and Master thesis
or
- Clinical internship and Master thesis



Practicals

- Neuropsychological Assessment
- Basic Clinical skills
- Basic Cognitive Psychological Research Skills

Knowledge and skills related to diagnostic instruments (tests, questionnaires) and procedures (conversation and observation techniques) and decision making procedures.



Specialisation Neuropsychology (1 year)

- Core courses; 4x
- Practicals/ skill trainings
- Research internship and thesis
- Clinical internship and Master thesis



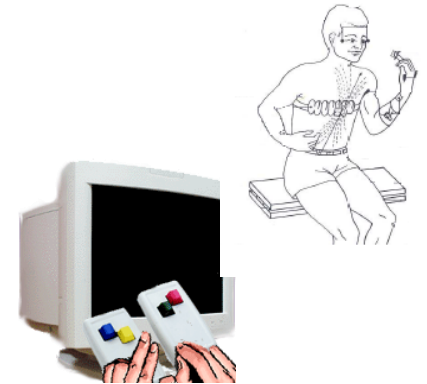
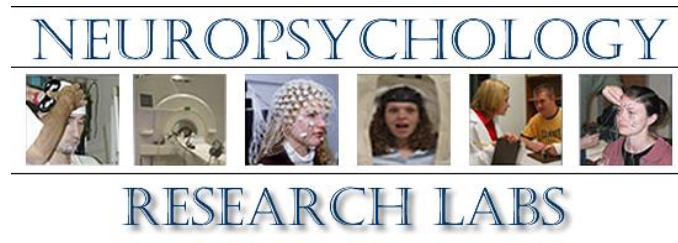
Internship and Master thesis: Research or Clinical ?

- Full research internship
6 months
- Master thesis
- Clinical internship
4 months
- Clinical activities report
- Health care certificates
- Clinical research part
2 months
- Master thesis

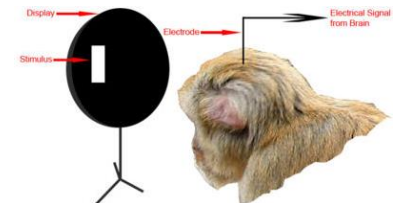
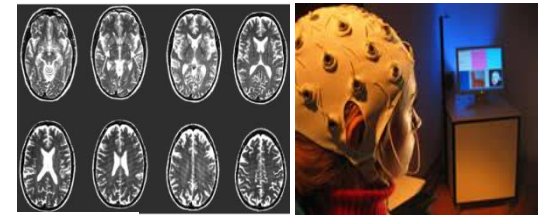
Internships

All thinkable areas in Neuropsychology

- Methods: neuropsychological tests, imaging techniques (fMRI), and psychophysiology



- Cognitive domains:
 - attention
 - memory
 - perception
 - motor control
 - emotional control



UM internships

Internationally recognized leading experts:

Brain injury and neuropsychological treatment

- Acquired brain injury & mild traumatic brain injury
- Fatigue and sleep in ABI
- Timing and rhythm perception after brain injury

Effects of drugs, medicine & food on brain and behavior

- Drugs of abuse, brain toxicity and impairment
- Effects of food on brain and performance
- Effects of drugs and medicine on driving performance
- Drug assisted verbal therapy

Neuropsychiatric disorders

- Evaluation of interventions for attentional problems
- Memory and cognitive decline in brain disease(s)
- Functional deficits from bipolar disorder, schizophrenia, etc.

Faculty of Psychology and Neuroscience



Does the fear avoidance model explain persistent symptoms after traumatic brain injury?

Melloney L. M. Wijenberg, Sven Z. Stapert, Jeanine A. Verbunt, Jennie L. Ponsford & Caroline M. Van Heugten

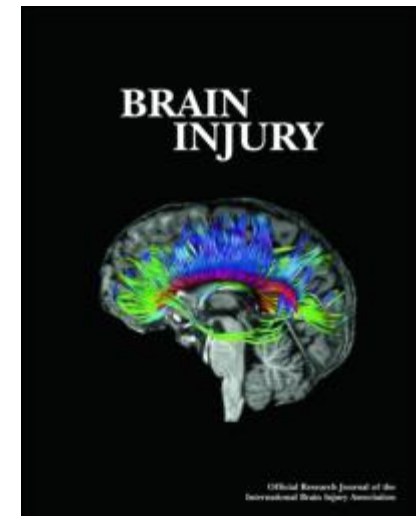
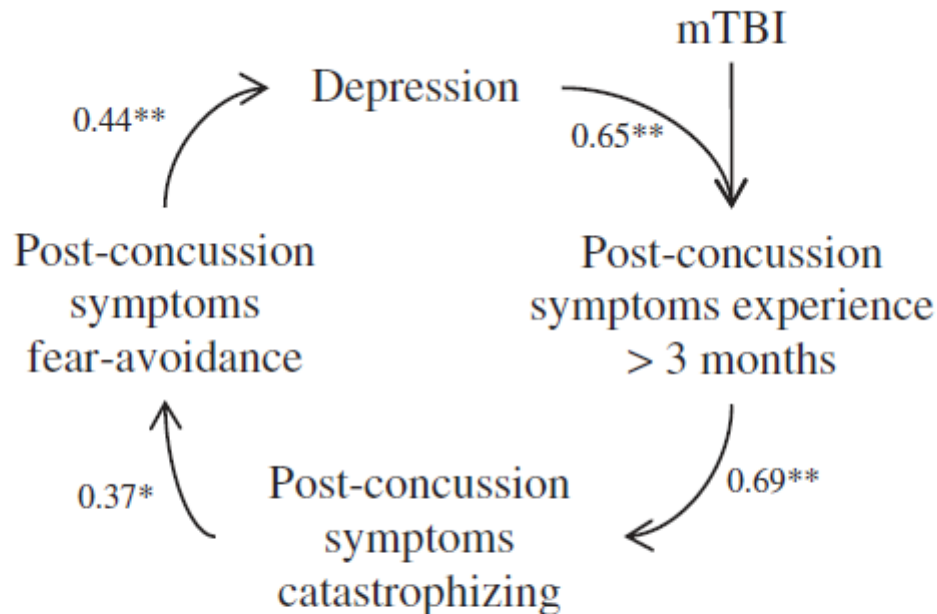


Figure 2. Fear avoidance model in patients with mTBI, a sub-group ($n = 31$).

Notes. Values shown are Pearson correlations and based on cross-sectional data.

** $p < 0.01$.

A Master degree in Neuropsychology: Wat are the consequences?

- Flexibility !
- A job as a clinician, a researcher or a combination of both.
- Work with different subjects: Children, Adults, Patients, Healthy Volunteers, Animals etc.



Possible professional fields

- Institutes for health care: (psychiatric) hospitals, rehabilitation centers, nursing homes, mental health clinic
- Scientific research and education: universities, research institutes (e.g., TNO, RIVM, NWO), industry (e.g., pharmaceutical or food companies)
- Policy making: governmental institutes
- Regular and special education (e.g., schools advisory service)

Option with further training

- PhD programme
- Post-doctoral training such as the “GZ-opleiding”
- Klinisch (neuro)psycholoog



PhD follow-up....

- A paid job!
- 48 months research
- Additional courses
- Writing a thesis
- Research career

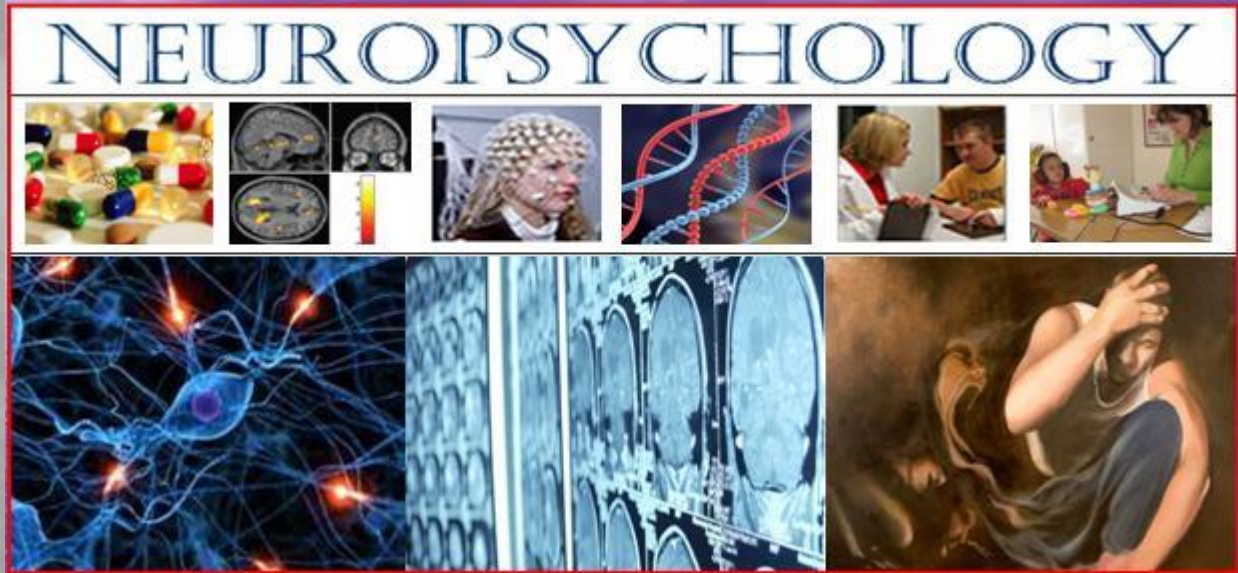
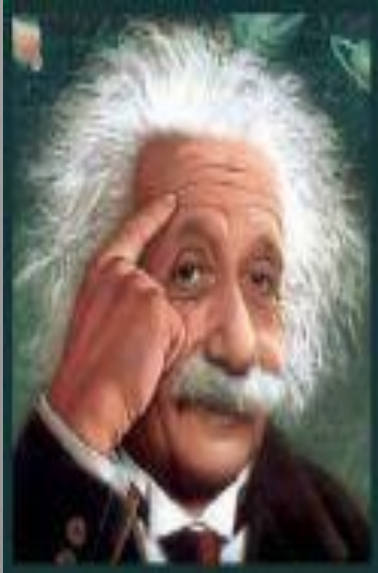


Post-master training in healthcare

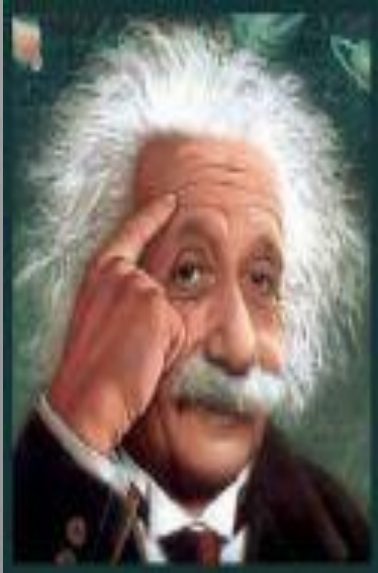
Post-master training in Psychology



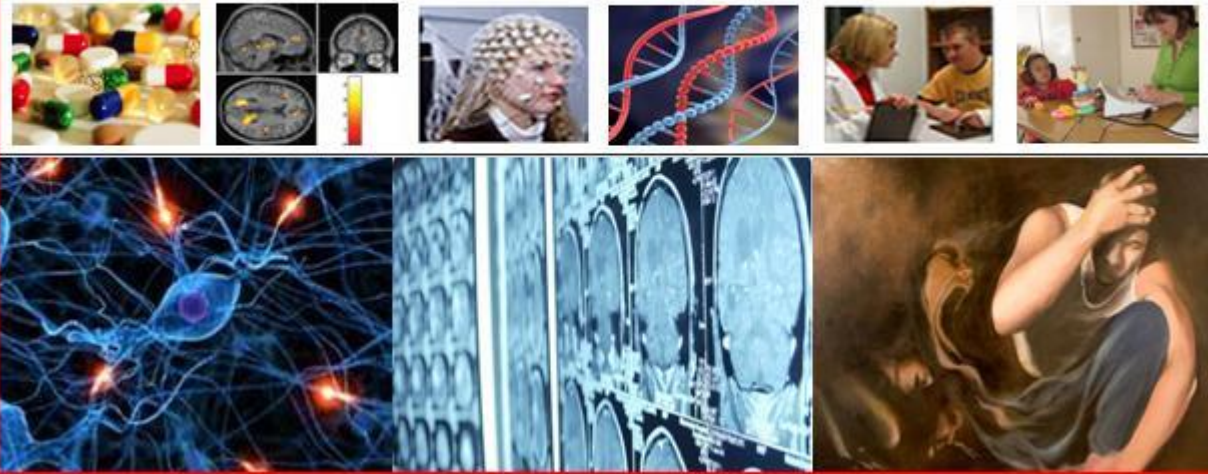
- Healthcare (Gz) Psychologist (2 years)
- Clinical Psychologist (4 years following Gz)
- Clinical Neuropsychologist (4 years following Gz)
- Psychotherapist (4 years following Ma or 2,5 years following Gz)



Choose wisely...



NEUROPSYCHOLOGY



Choose Neuropsychology!
Hope to see you soon



More information? Contact us



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