

# Research Master in Cognitive and Clinical Neuroscience **Neuropsychology Specialisation**

Sven Stapert

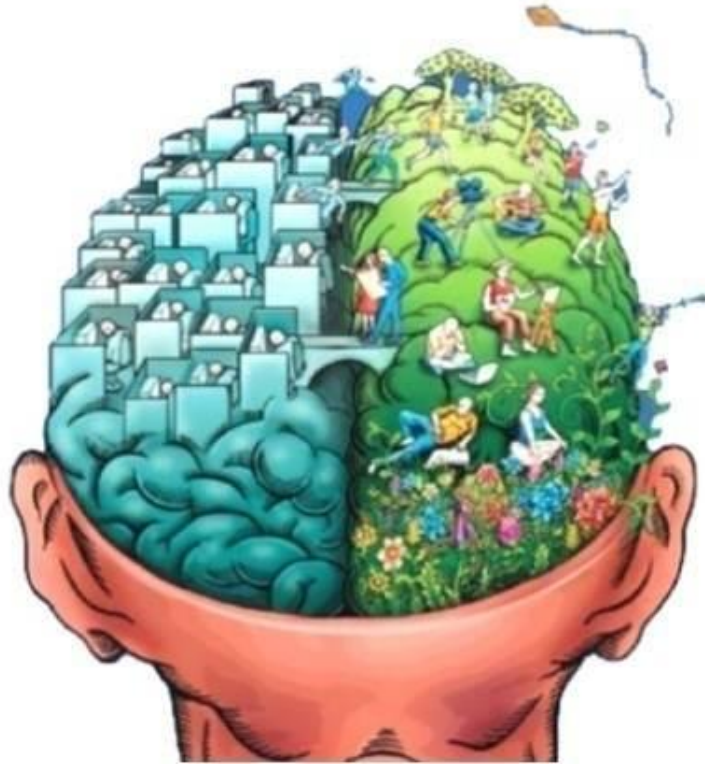
Specialisation

Coordinator



# Neuro-Psychology?

Go  
the **extra**  
mile



a specialist in cognition and behaviour  
**Scientist-Practitioner**

# 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

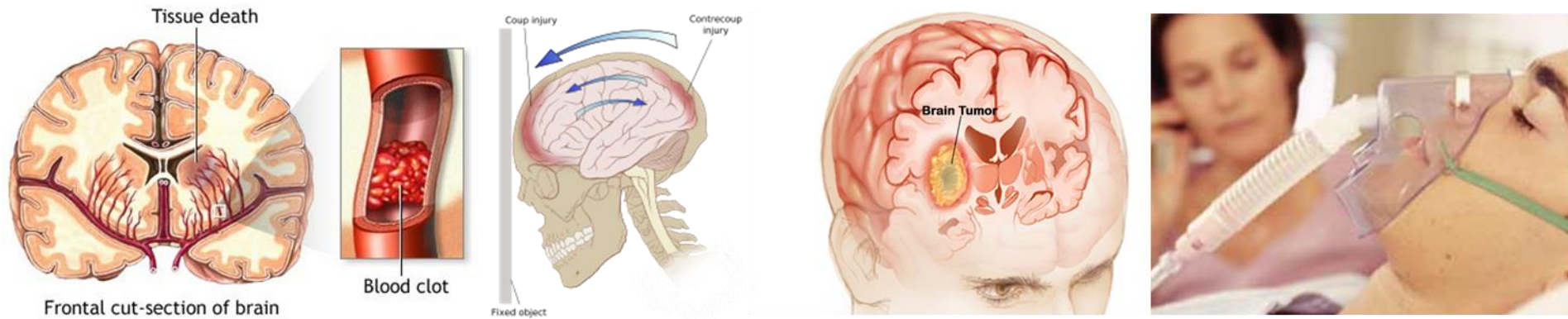
## Brain and Behaviour



**Normal, healthy brains and lifespan development**

# Neuropsychology

## Brain and Behaviour



**Consequences of acquired brain injury**

# Neuropsychology

## Brain and Behaviour

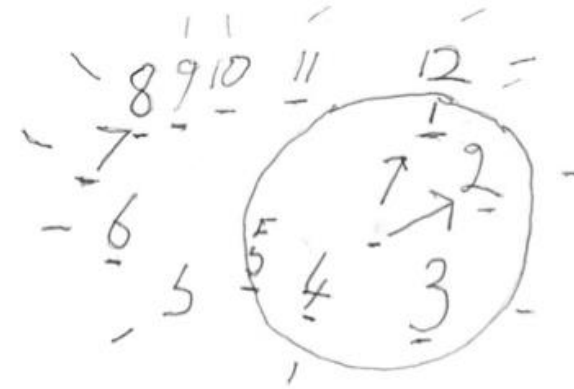
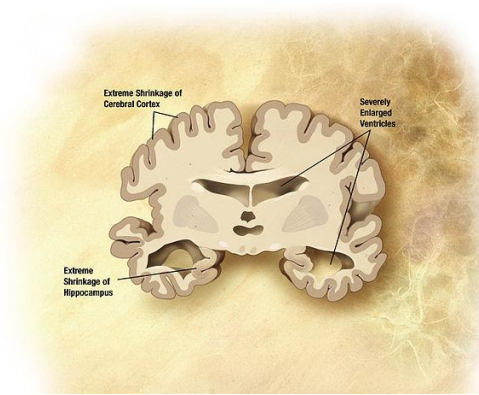


**Developing, exploring and learning**



# Neuropsychology

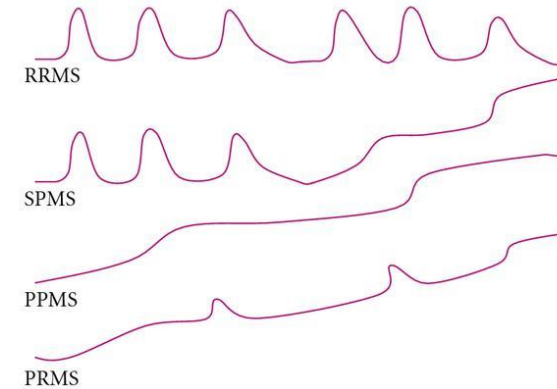
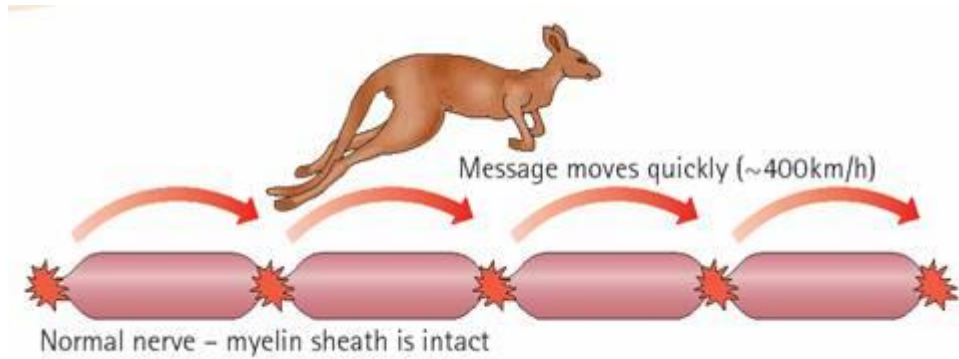
## Brain and Behaviour



**Brain disease(s)**

# Neuropsychology

## Brain and Behaviour



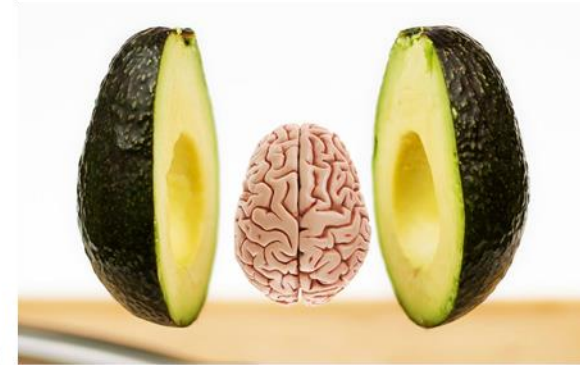
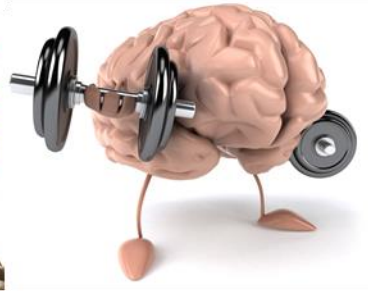
Clinical subtypes of MS

Brain disease(s)



# Neuropsychology

## Brain and Behaviour



**Protecting, enhancing and cognitive training**



Go the extra mile

# Neuropsychology

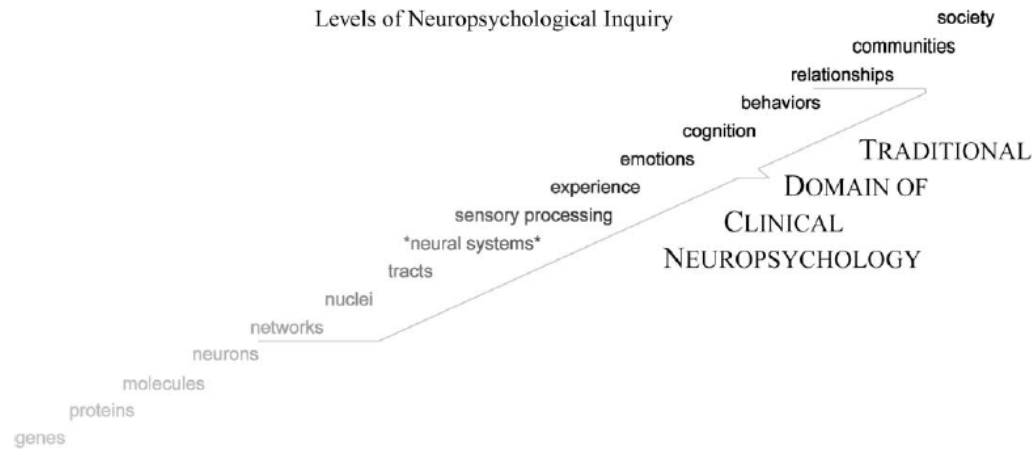
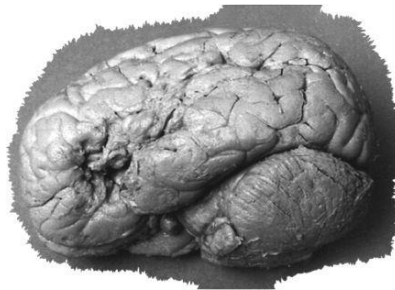
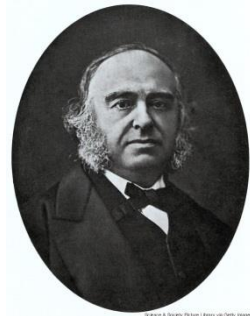
## Brain and Behaviour



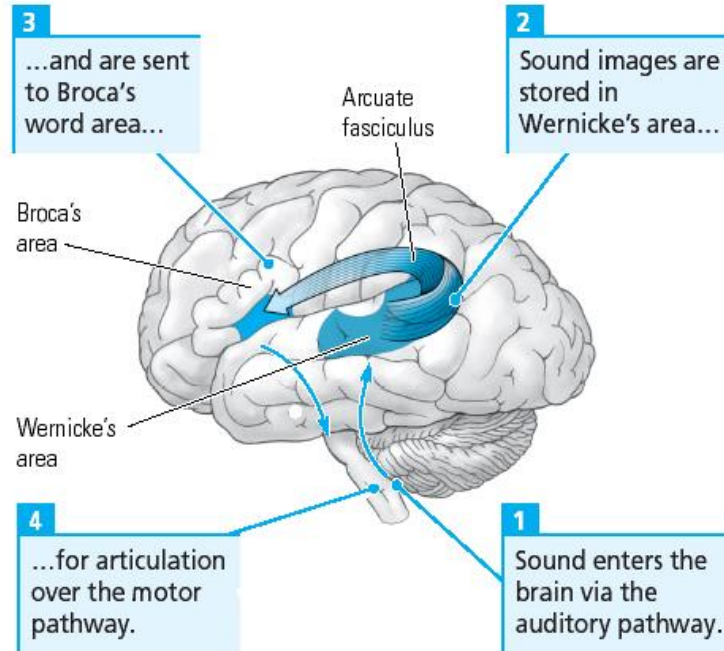
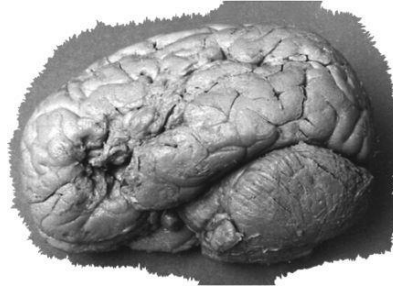
Protected???



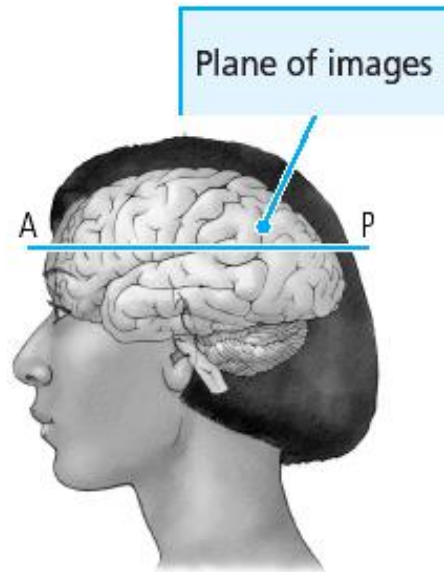
# A history of a young psychology discipline



## A history of a young psychology discipline



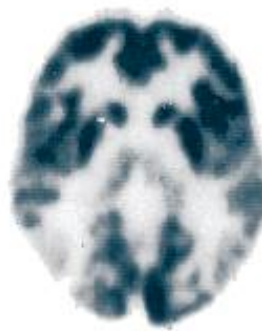
# How the brain relates to (ab)normal behaviour



Computerized tomography (CT scan)



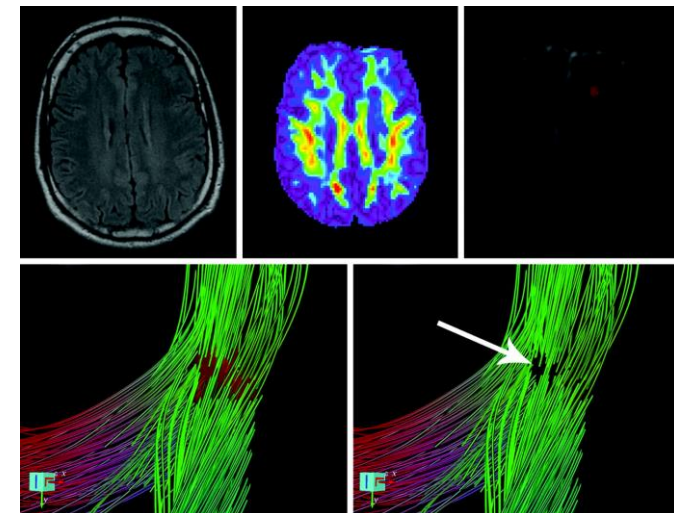
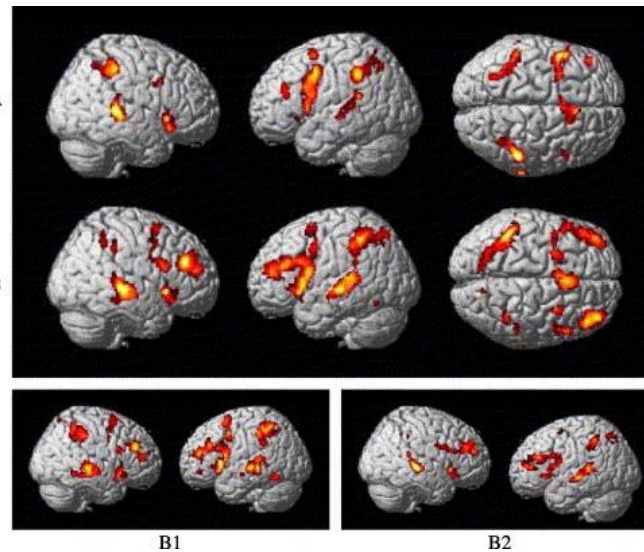
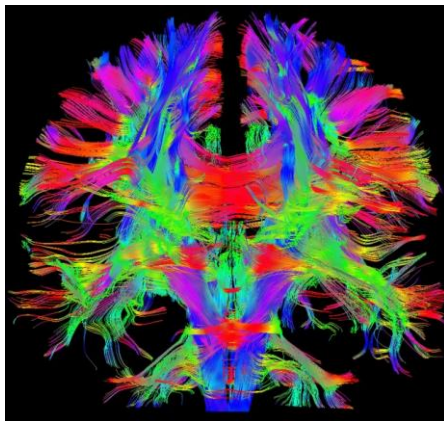
Positron emission tomography (PET scan)



Magnetic resonance imaging (MRI scan)

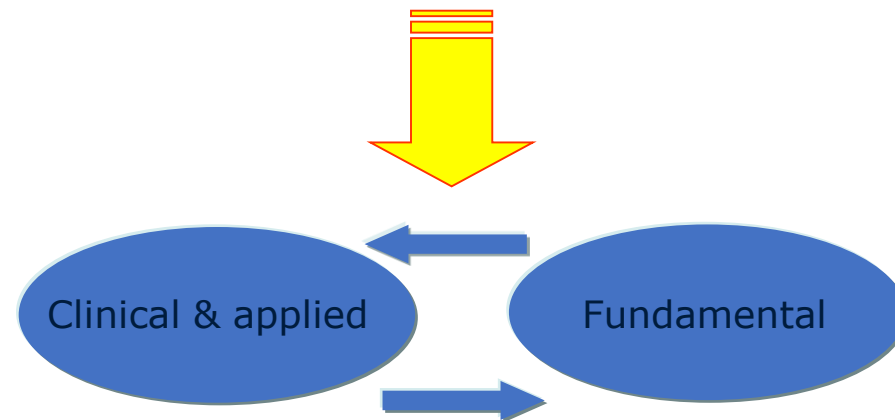


Photograph



## RM specialisation Neuropsychology

Interdisciplinary specialisation involving:  
Neuropsychology, cognitive experimental psychology,  
neurology, psychiatry,  
psychopharmacology



## RM specialisation Neuropsychology (2 years)

### Core courses (14):

Brain Damage	Biopsychology
Behavioural disorders	Brain, Learning & memory
Arousal & Attention	* <i>Research grant writing</i>
Ageing	Executive control
	Neuropsychiatric disorders
	Neuropsychopharmacology
	Cognitive development
	Stress, the brain and Depression

\*=shared with other RMtracks      \* *Adv Statistics I and II*

**Skills trainings**

**Workshops**

**Colloquia**

**Research internship** and Master thesis

**Clinical internship** and Minor's thesis



# RM specialisation Neuropsychology (2 years)

## Core courses (14):

Brain Damage

Behavioural disorders

Arousal & Attention

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## Skills trainings

## Workshops

## Colloquia

Research internship and Master thesis

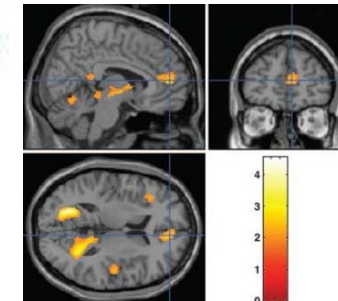
Clinical internship and Minor's thesis





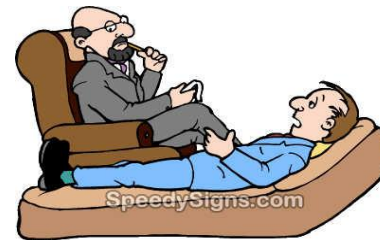
## Methodological Research skills

- **NP Basic Experimental NP skills**
- *Imaging*
- *Psychophysiological skills*
- *Neuronatomy*
- *Advanced Statistics ! (Yummy)*



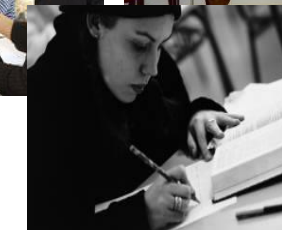
## Clinical-research NP skills

- **NP in practice; test results, report & advice**
- **NP rehabilitation**
- **NP assessments**



## Workshops

- **NP assessment in children**
- *Scientific Writing*
- *Research grant writing*
- *Psychopharmacology*
- *Imaging*



# RM specialisation Neuropsychology (2 years)

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Behavioural disorders

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## Skills trainings

## Workshops

## Colloquia

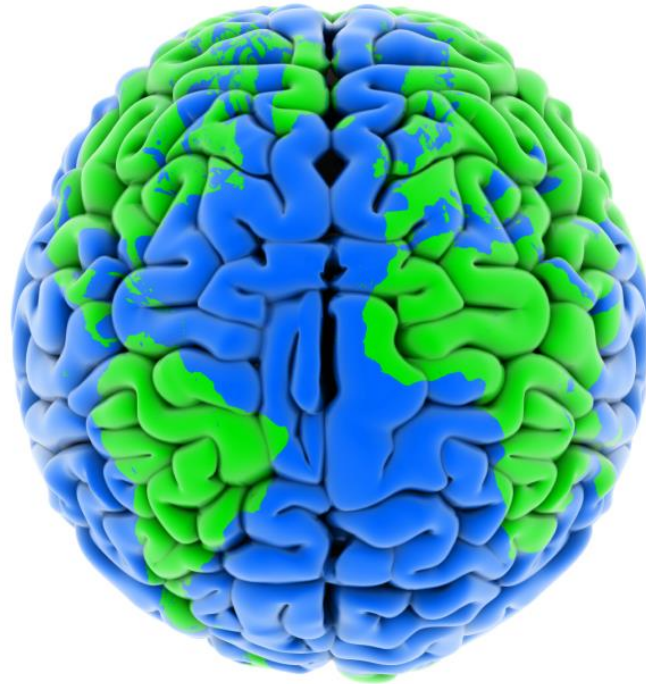
**Research internship** and Master thesis

**Clinical internship** and Minor's thesis



Research Internships  
**The broad spectrum of neuropsychology**

**Worldwide**



# International internships

## Cohorts 2008-2018

Glasgow, Kenia, San Diego, San Francisco, London, Cambridge, Melbourne, Cologne, Liège, Boston, and other places in the UK, Australia, USA, Germany, Greece, Italy and Canada.



# UM internships

## Internationally recognised 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 behaviour**

- 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. etc.

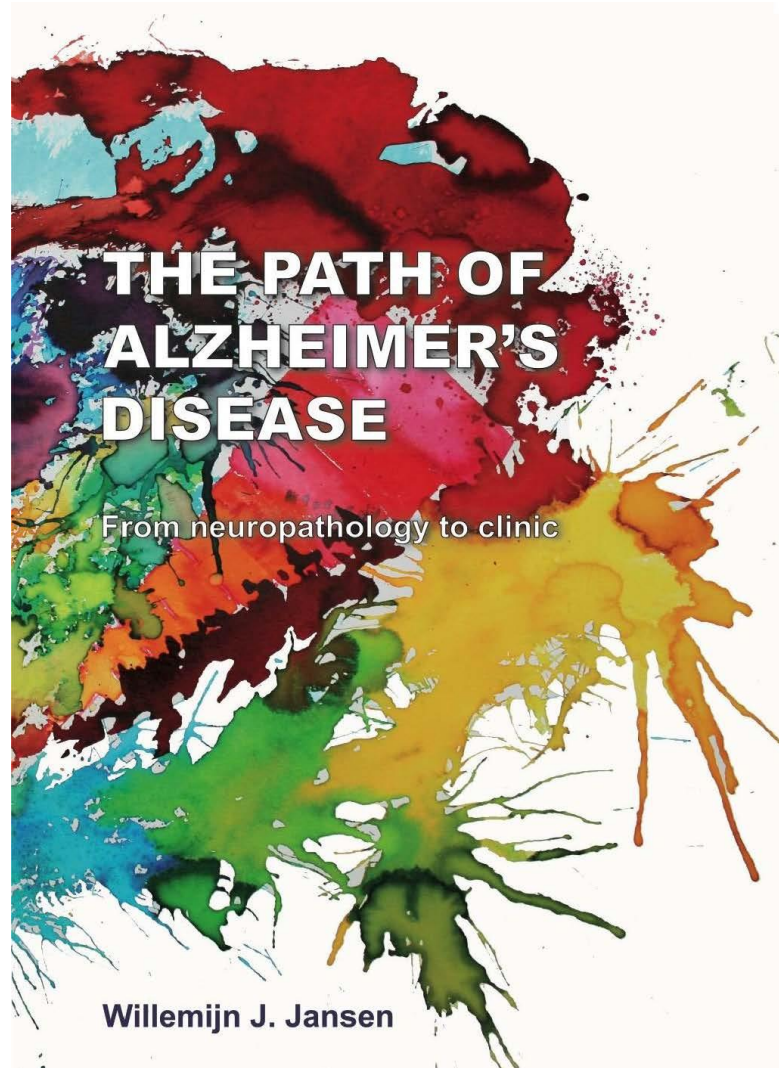
## Option for further training

PhD programme (approx 70%)

Post-doctoral training  
“GZ opleiding”/healthcare  
certificates

- Healthcare Psychologist
- Clinical Neuropsychologist
- Psychotherapist





NEDERLANDSE VERENIGING VOOR  
NEUROPSYCHOLOGIE

Willemijn Jansen winnaar dissertatieprijsvraag 2017



**Think about it,  
consider, plan ahead  
and choose.....NP**



## More information? Contact us

Go  
the  
mile  
extra

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 maastrichtuniversity.nl/fpn/masters

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#UMMOD19 #ExplorePsychology