David Thonnard

Neuroscientist
Data-analyst

- 👤 July 26, 1985 (36) 🇧🇪
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About Me

I am a neuroscientist and data scientist with a biomedical and psychological background. For the past 8 years, I have been conducting preclinical work studying cognitive flexibility. During this period, I have also developped a wide array of statistical and data-related skills. More recently, I have been combining academia with industry.

Languages

🇳🇱 Dutch	● ● ● ● ●
🇬🇧 English	● ● ● ● ○
🇫🇷 French	● ● ● ○ ○
🇪🇸 Spanish	● ● ○ ○ ○
🇩🇪 German	● ○ ○ ○ ○

Hard Skills

⚗ Laboratory Skills

- ☑ Neurosurgical lesions
- ☑ Neurosurgical implantations
- ☑ IHC/nissl stainings
- ☑ Brain perfusion/extraction
- ☑ Injections (IP/SC/IM)
- ☑ Optogenetics
- ☑ Flowcytometry

Work Experience

currently	**Research Scientist**	UCB
	In-vivo pharmacology - neurodegeneration - gene therapy	
2020-2021	**QA Analyst/Consultant**	Johnson&Johnson
	Quality Assuruance in the European Distribrution Center (EDC) for Medical Devices (Johnson & Johnson) as consultant for Altran - Capgemini.	
2013-2020	**Neuroscientist**	KU Leuven - Brain and Cognition
	Preclinical brain research. Main topic: cognitive flexibility. Lab of Prof. Dr. Rudi D'Hooge.	
2008	**Lab technician**	University Ghent - Dep. of Virology
	Quantification of cellular immunological memory after measles vaccination through intracellular cytokine detection using flowcytometry. Lab of Prof. Dr. Geert Leroux-Roels.	

Education

currently	**Advanced Master in Artificial Intelligence**	KU Leuven
	Engineering and Computer Science	
2014-2020	**PhD Neuroscience**	KU Leuven
	Thesis: Pharmacological mechanisms and telencephalic interactions involved in neurocognitive flexibility	
2008-2013	**Master of Science in Theoretical and Experimental Psychology**	Ghent University
	Thesis: Jouw pijn is mijn pijn, maar... "Does it matter if you're black or white?".	
2005-2008	**Bachelor in Biomedic Laboratory Technology, Pharmaceutical and Biological Techniques**	University College - Ghent
	Thesis: Quantification of cellular immunological memory after measles vaccination through intracellular cytokine detection.	

Grants

2014	Doctoraatsbeurs Strategisch Basisonderzoek	IWT/FWO

Conferences & Presentations

08/2017	**European Behavioural Pharmacology Society**	Heraklion - Greece
	Perseverative behaviour in low-dose MK801-treated mice	
07/2017	**RIKEN Brain Science Institute**	Tokyo - Japan
	Impaired reversal learning after NMDA-induced lesions in the PFC-HC network	
05/2017	**Belgian Society for Neuroscience**	Ghent
	Effect of MK801 on learning and memory	
07/2016	**Federation of European Neurosciences Societies**	Copenhagen - Denmark
	Cognitive flexibility: Modulation of prefrontal-hippocampal network	

Certificates and Courses

03/2020	Introduction to SAS	FLAMES
01/2020	Python for Machine Learning	VSC - KU Leuven
01/2020	Python for Data Science	VSC - KU Leuven
01/2020	Scientific Python	VSC - KU Leuven

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🐾 Behavioural Testing

- ☑ Morris Water Maze
- ☑ T-Maze
- ☑ Rotarod
- ☑ Open Field
- ☑ Elevated Plus Maze
- ☑ Touchscreen visual discrimination
- ☑ Odor discrimination

💻 Computer Skills

- ☑ R
- ☑ SAS
- ☑ Python
- ☑ SQL
- ☑ Stata
- ☑ SPSS
- ☑ Matlab
- ☑ C
- ☑ LaTeX

🚗 Driver's license: B (2004)

Soft Skills ─────────

Date	Course	Institution
10/2019	Matlab programming introduction	VSC - KU Leuven
10/2019	Linux scripting	VSC - KU Leuven
12/2016	Non-parametric statistics	Leuven Statistics Research Centre
07/2014	FELASA C - Laboratory Animal Sciences	Biomedical Sciences - KU Leuven
03/2010	Vaccinations in the 21st century	Ghent University
02/2008	The tumor micro-environment: new insights and therapeutic perspectives	Ghent University
03/2007	Viral infections during pregnancy and in children. Disease and bio-safety in the lab	Ghent University
2007	Kjeldahl method	Ghent University
2004	Business Management	OLVL Highschool

Publications

2021 — **Effects of orbitofrontal cortex and ventral hippocampus disconnection on spatial reversal learning.**
Thonnard, D., Callaerts-Vegh, Z., D.'Hooge, R.
Neuroscience Letters, 135711 <u>DOI</u>

2020 — **Comparison between touchscreen operant chambers and water maze to detect early prefrontal dysfunction in mice.**
Van den Broeck, L., Hansquine, P., Sierksma, A., Thonnard, D., Vegh-Callaerts, Z. & D'Hooge, R.
Genes, Brain and Behavior, e12695 <u>DOI</u>

2019 — **Differential effects of post-training scopolamine on spatial and non-spatial learning tasks in mice**
Thonnard, D., Callaerts-Vegh, Z., D.'Hooge, R.
Brain Research Bulletin, 152, 52-62 <u>DOI</u>

2019 — **NMDA receptor dependence of reversal learning and the flexible use of cognitively demanding search strategies in mice**
Thonnard, D., Dreesen, E., Callaerts-Vegh, Z., D'Hooge, R.
Progress in Neuropsychopharmacology & Biological Psychiatry, 90, 235-244 <u>DOI</u>

2011 — **Oorzaken en gevolgen van een verhoogd glucose metabolisme bij kanker**
Thonnard, D., Vermeulen, S.
Tijdschrift van de Belgische Vereniging van Laboratorium Technologen, 38(1), 17-23 <u>DOI</u>

Extra-curricular Activities

September 17, 2021   David Thonnard