

## CURRICULUM VITAE

### Prof. dr. J.J.G. (Jeroen) Geurts

*Clinical neuroscientist*

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### CURRENT POSITIONS

<p><b>President, Organization for Health Research &amp; Healthcare Innovation (ZonMw)</b> Ministry of Public Health, Welfare &amp; Sports; (ZonMw is the 'Dutch NIH') Incl. membership, Heads of International Biomedical Research Organisations (HIROs)</p>	<p><i>since 2017</i></p>
<p><b>Board Member, Dutch Organization for Scientific Research (NWO)</b> Ministry of Education, Culture &amp; Science</p>	<p><i>since 2017</i></p>
<p><b>Professor of Translational Neuroscience, VU University Medical Center</b> <b>Professor, Dept. of Physiology &amp; Pharmacology, University of Calgary</b></p>	<p><i>since 2012</i> <i>since 2013</i></p>
<p><b>Chair, Department of Anatomy and Neurosciences</b> <b>Chair, Section of Clinical Neuroscience</b> VU University Medical Centre, The Netherlands</p>	<p><i>since 2013</i> <i>since 2010</i></p>
<p><b>Member of the Board of Directors VUmc MS Center Amsterdam</b> <b>Member of the Board of Directors Amsterdam Neuroscience</b></p>	<p><i>since 2013</i> <i>since 2015</i></p>

### EDUCATION

<b>MSc</b>	Clinical neuroscience, University of Amsterdam	<i>1996-2001</i>
<b>PhD</b>	VU University, cum laude Title of thesis: Grey matters! MR imaging and histopathology studies of the grey matter in multiple sclerosis <i>[supervisors: Prof. J.A. Castelijns, Prof. F. Barkhof, Prof. C.H. Polman]</i>	<i>2001-2005</i>

### POSITIONS SINCE COMPLETING PHD

Position	Period (date-date)	Number of fte	Temporary	Permanent	Staff supervised
Senior scientific researcher VU University Medical Center	2004-2008	1.0	X		4.0 fte PhD fellows
Senior Assistant Professor (UD-B), VU University Medical Center	2008-2010	1.0		X	7.0 fte PhD fellows
Senior Associate Professor (UHD-B), VU University Medical Center	2010-2012	1.0		X	12.4 fte PhD/postdoc/asst profs
Honorary Senior Lecturer, University College London	2010-2013		X		1 joint PhD fellow
Professor, University of Calgary	2013-present			X	2 joint postdocs
Full Professor, VU University Medical Center	2012-present	1.0		X	12.4 fte
Head, department of Anatomy and Neurosciences, VU Medical Centre	2013-2016	1.0		X	43.5 fte + non-fixed personnel (~75 fte)
Head, department of Anatomy and Neurosciences, VU Medical Centre	2017-present	0.5		X	43.5 fte + non-fixed personnel (~75 fte)
President ZonMw & Executive Board of NWO, The Hague	2017-present	0.5	X		

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## NATIONAL ACTIVITIES AND PROFILE

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<b>Member Dutch Health Council (Gezondheidsraad)</b> , independent scientific advisory board Advises government and parliament on issues related to public health (care)	<i>since 2015</i>
<b>Director &amp; Founder of Brein in Beeld Foundation</b> (see <i>scientific outreach</i> section) [ <a href="http://www.breininbeeld.org">www.breininbeeld.org</a> ]	<i>since 2010</i>
<b>Member of the Young Academy</b> of the Royal Netherlands Academy of Arts and Sciences [ <a href="http://www.dejongeakademie.nl">www.dejongeakademie.nl</a> ]	<i>2012-2017</i>
<b>Chair, Dutch National Research Agenda Route: Brain, Cognition and Behaviour</b>	<i>2016</i>
<b>Chair, Dutch National Research Agenda, theme group Health</b>	<i>2016</i>
<b>CEO, Normal Aging Brain Collection Amsterdam (NABCA)</b> [ <a href="http://www.nabca.eu">www.nabca.eu</a> ]	<i>2015-present</i>
<b>Chair, the Young Academy</b> of the Royal Netherlands Academy of Arts and Sciences	<i>2013-2015</i>
<b>Practical philosopher</b>	<i>2014</i>
<b>Public figure/lecturer for science and education</b> See <i>scientific outreach</i> section and <a href="http://www.jeroengeurts.nl">www.jeroengeurts.nl</a> for radio and tv items and movie clips of lectures and interviews University Lecturer 2013 (Eindhoven Technical University; booklet and CD available) University of the Netherlands <a href="#">public lectures</a>	

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## INTERNATIONAL SCIENTIFIC PROFILE

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### Steering Committees / Advisory Boards

- Steering Committee of the International MS Cognition Society (IMSCOGS);  
Executive Board IMSCOGS *2016-present*
- Scientific Steering Committee of the International Progressive Multiple Sclerosis Alliance *until 2016*
- Scientific Advisory Board Dutch MS Research Foundation *until 2016*

### Honorary appointments

- Professor, Dept. of Physiology & Pharmacology, University of Calgary *since 2013*
- Honorary Senior Lecturer, Institute of Neurology, University College London *2010-2013*

### Editorships, editorial boards, reviewer activities

- Editor of *Multiple Sclerosis Journal*
- Associate Editor of *BMC Neurology* and *Front Neurol*
- Member of the editorial boards of *Neurology*, *MS Journal*, *Frontiers of Neurology*, *MS International*
- Active reviewer for approximately 20 internationally peer-reviewed scientific journals, among which *The Lancet Neurology*, *Brain*, *Annals of Neurology*, *Neurology*, *Radiology*, *Human Brain Mapping*, etc.
- Grant reviewer for Medical Research Council of the UK, the National MS Society of the UK, the National MS Society of the USA, the Fondazione Sclerosi Multipla in Italy, Fondazione ARSEP ('Aide à la Recherche sur la Sclérose En Plaques'), the German Hertie Stiftung, the International Progressive MS Alliance and the MS Society of Canada

### International network

Solid international network of collaborations. **Joint publications** (e.g. Stys, van Minnen, Zamponi, Geurts, *Nature Rev Neurosci* 2012, Geurts et al, *J Neurol Sci* 2009, Filippi et al, *Neurology* 2010, *Lancet Neurology* 2012, Geurts et al, *Neurology* 2010, and Geurts et al, *Lancet Neurology* 2012) and **joint (awarded) grants** (e.g. Ciccarelli, Geurts, a.o., Medical Research Council Advanced Grant 2010; Stys, Geurts, a.o., Canadian MS Society, 2010; Inglese, Geurts, National MS Society USA 2012; Benedict, Zivadinov and Geurts, National MS Society, USA, 2012).

### Memberships

Society for Neuroscience, Dutch and European Federations of Neuroscience, Dutch Federation of Anatomists

## Invited lectures

Since obtaining PhD, ~150 (international) invited lectures, a selection of these listed below:

- “Grey matter damage in Multiple Sclerosis”, *National Institutes of Health (NIH)*, 13-14 March 2006, Bethesda, Washington, USA
- “MR Imaging and histopathology of grey matter abnormalities in Multiple Sclerosis”, 6-7 July 2006, *University College London*, UK
- “Gray matter abnormalities in Multiple Sclerosis”, *European Brain Research Institute (EBRI)*, 15-16 November 2006, Rome, Italy (Prof. R. Levi-Montalcini, 1986 Nobel Prize laureate for Medicine)
- “MR Imaging and histopathology of grey matter and axonal damage in Multiple Sclerosis”, Consortium of MS Centres, Washington DC, USA, and *National Institutes of Health (NIH)*, Bethesda, 30 May – 2 June 2007, Washington, USA
- “MRI and histopathology of MS”, *9th World Congress of Neuropathology*, 8-10 May, 2008 Athens, Greece
- “Neuropathology of cognitive decline”, *International Experts Meeting*, Göttingen, Germany, June 11-12, 2010
- “High field imaging of cortical lesions in MS”, *World Congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS)*, 12 October 2010, Göteborg Sweden
- “Grey matter abnormalities in MS”, *International Society for Magnetic Resonance in Medicine*, 7-9 May 2011, Montreal, Canada
- “Imaging cognitive decline and rehabilitation in MS”; *Baird Lecture*, 21 Nov 2013, Newark, New Jersey, USA
- “Grey matter pathology and mechanisms of progression” 12 Sept 2014, *World Congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS)*, Boston, USA
- “Pathological findings in the hippocampus of MS patients” 18 March 2016, *19th Advanced Course MR Techniques in MS*, Milan, Italy
- “Pathophysiological findings in progressive MS” 12 May 2016, International Progressive MS Alliance, San Francisco, USA
- “Structural Imaging and Cognition in MS” 23 May 2016, International MS Cognition Society, New York, USA (also speaker at IMSCOGS congresses 2014, 2015 and 2017)
- “Grey matter imaging” 29 June 2016, European Committee for Treatment and Research in MS Summer School, Vienna, Austria
- “GM Imaging: an update” 30 March 2017, Magnetic Resonance Techniques in Multiple Sclerosis in Multiple Sclerosis, Milan, Italy

## Scientific publications and impact in the field

### *Bibliometrics*

h-index:	57
m-index:	3.3
i10-index:	133
# publications:	161
# of citations:	10,719

## Selection of 5 example publications

1. **Geurts JGG, Pouwels PJ, Uitdehaag BM, Polman CH, Barkhof F, Castelijns JA.** Intracortical lesions in multiple sclerosis: Improved detection with 3D double inversion-recovery MR imaging. *Radiology* 2005; 236(1): 254-60.
  - Introduction of a newly developed MRI technique to visualize cortical lesions in MS patients. Before this study, these clinically important lesions were missed entirely on MRI and could not be studied for their contribution to cognitive decline. This paper has been hugely influential in the development of newer MRI techniques in the years to follow and in the study of the pathophysiological role of GM damage in MS. Highly cited, to the day.
2. **Geurts JGG, Barkhof F.** Grey matter pathology in multiple sclerosis. *Lancet Neurol* 2008; 7(9):841-51.
  - Journal IF: 26.3; impactful paper in the field, providing guidelines for imaging MS grey matter damage and uniting the fields of neuroradiology and neuropathology and establishing the ‘Amsterdam protocol of post mortem imaging’.

3. PK Stys, GW Zamponi, J Van Minnen, **JJG Geurts**. Will the real multiple sclerosis please stand up? *Nature reviews Neuroscience* 2012; 13 (7): 507-14.
  - Journal IF: 28.9; influential paper dealing with a new hypothesis ('the inside-out hypothesis') for the pathogenesis of multiple sclerosis. Subject and input of many scientific debates and sessions at international congresses and starting point for a new movement in the field, as a contrast to the classical 'outside-in' (auto-immune) doctrine. Conceptual analysis.
4. Kilsdonk ID, Jonkman LE, Klaver R, van Veluw SJ, Zwanenburg JJ, Kuijjer JP, Pouwels PJ, Twisk JW, Wattjes MP, Luijten PR, Barkhof F, **Geurts JJG**. Increased cortical grey matter lesion detection in multiple sclerosis with 7 T MRI: a post-mortem verification study. *Brain* 2016; 139:1472-81.
  - Latest improvement of cortical lesion visualization in MS in one of the first and largest high-field studies in our field.
5. Eijlers AJC, van Geest Q, Dekker I, Steenwijk MD, Meijer KA, Hulst HE, Barkhof F, Uitdehaag BMJ, Schoonheim MM, **Geurts JJG**. Predicting cognitive decline in multiple sclerosis: a 5-year follow-up study. *Brain*. 2018 Sep 1;141(9):2605-2618.
  - a. Cognitive decline can be reliably predicted by gray matter atrophy of the deep gray matter in relapsing-remitting MS, and by cortical atrophy in progressive MS.

#### **Education: BSc/MSc internships, MSc literature theses, and MSc educational programs**

- Founder and coordinator of Clinical Neuroscience (MSc Neuroscience, VU University)
- Founder of neurophilosophy program for the Neuroscience research Master, together with the Faculty of Philosophy of VU University. VU is the first in the Netherlands (and one of the first in the world) to offer a double degree of neuroscience and philosophy, i.e. joint MSc/MPhil.
- Member of the Examination Board of the MSc of Neuroscience master (2010-2013), member of the selection committee for the Honours Master (special program for excellent students; 2010-2013) and member of the curriculum committee of the Master of Medicine (2012-present).

**Educational certification:** BUD certification for academic education, BROK registration for clinical research and article 9 certification for research with animals.

#### **BROK clinical certification**

#### **Scholarships, grants and prizes**

Total funds acquired (2005-2017, as PI and co-PI, national and international MS societies, pharma, crowd funding and patient initiatives, national/international science organisations): **€12,431,582**

#### **Awards and nominations**

- 2008: Award of the Dutch Radiological Society of the Netherlands for the oeuvre "MR imaging of cortical lesions in multiple sclerosis"
- 2008: Short-listed by a selected group of prominent scientists, writers and organisations promoting translation of science to society, for the Van Walree Prize of the Royal Dutch Academy of Sciences (for "Best popularization of Science")
- 2012: Science Trophy, Hersenstichting Nederland
- 2012: Selected member of The Young Academy, Royal Academy of the Arts & Sciences. The Young Academy selects the 10 best Dutch scientists and is involved in science policy and translation. (See: [www.dejongeakademie.nl](http://www.dejongeakademie.nl))
- 2013: Selected Chairman of The Young Academy of the Royal Academy of the Arts & Sciences.
- 2013: Awarded "University Lecturer TU/e"
- 2017: [Ammodo Award](#)