

**Personal details**

Title(s), name:	<b>Prof. dr. A.J. (John) Van Opstal (♂)</b>
Date and place of birth:	<b>26-03-1957 in Zevenbergen (someone had to ... 😊)</b>
Nationality:	<b>Dutch</b>
Webpage:	<a href="http://www.mbfys.ru.nl/~johnvo">http://www.mbfys.ru.nl/~johnvo</a>
E-mail:	<a href="mailto:j.vanopstal@donders.ru.nl">j.vanopstal@donders.ru.nl</a>

**Master's**

University::	<b>Radboud University Nijmegen, MSc (Physics)</b>
Date:	<b>November 10, 1983</b>
Main subject:	<b>Biophysics</b>

**PhD**

University:	<b>Radboud University Nijmegen, Dept. of Medical Physics and Biophysics</b>
Date:	<b>March 10, 1989</b>
Supervisor ('Promotor'):	<b>Prof. dr. C.C.A.M. (Stan) Gielen, and dr. J.A.M. (Jan) Van Gisbergen</b>
Title of thesis:	<i>"An experimental and theoretical analysis of the primate saccadic system."</i>

**Doctorate 2**

College of Higher Education:	<b>Katholieke Leergangen Tilburg Spanish MO-B (first-grade teaching qualification)</b>
Date:	<b>December 21, 1985</b>

**Work experience since graduating**

1989-1990	Postdoc (1.0 fte) at Neurology Department of the University of Zürich, Switzerland (fixed-term).
1990-1995	Assistant professor (UD) at Dept. Medical Physics and Biophysics, RUN (tenured term): Acquired and supervised two PhD students in this period (Frens, RUN, and Goossens, ALW).
1995-2005	Associate professor (UHD) at Dept. Medical Physics and Biophysics, KUN (tenured term). Acquired and supervised five PhD students (Hofman, ALW, Zwiers, RUN, Van Wanrooij (Human Frontiers Science Program), Vliegen (MaGW), and Van Wetter, ALW) and one Postdoc (dr. Versnel, ALW).
1998-2001	Principal coordinator of a Human Frontiers Research Grant (involving an international collaboration between five laboratories from Nijmegen (1), Canada (1) and the USA (3)).
1999-2004	Chair of the Physics teaching committee, responsible for the quality of the physics curriculum.
2005-2010	Appointed full professor in Systems Biophysics
2005-2010	Acquired prestigious Vici grant (€1.34M), as well as a European Research

	Grant (Marie-Curie, €300k), a NeuroCognition Grant from NWO (€420k). Appointed two postdocs (dr Van der Willigen and dr Van Wanrooij) and three PhD students (drs P Bremen, drs. R. Massoudi and drs T van Grootel)
2010-now	<p>Department head and Chair Biophysics at the Faculty of Science. Since Nov 1, 2018, director of the Donders Centre for Neuroscience at the Science Faculty (5 departments, total of 70-75 fte).</p> <p>I obtained several Open Competition grants at NWO; in 2013 I received a FP7 Marie-Curie grant for IDP project <b>HealthPAC</b> (€3.5M for 14 PhD students at the Donders Institute). I further participated in two other ITN grants (2 PhDs, 1 postdoc: NETT and iCARE). I co-organized a Gordon Conference in 2013, and international scientific meetings (Vestibular meeting in Amsterdam 2014; Gordon Conference on Eye movements in Massachusetts 2015, and yearly summerschools for <i>HealthPAC</i>. In Nov. 2015 our STW Perspective Project NeuroCIMT was awarded (€4M, of which € 600k for my group). March 16, 2016 I was awarded the prestigious ERC Advanced Grant (€ 2.5M) for my Multisensory gaze-control project “<b>ORIENT</b>”. In April 2016 my <b>book</b> on the Auditory System was published. Per September 2017, I became a selected member of the <i>Academia Europaea</i>.</p>

### **Man-years of research since PhD**

30 years

### **Brief summary of my research over the last five years.**

The main research topics in the lab are *Human sound-localization and plasticity; Sound processing in the behaving monkey, Multisensory integration, and the Role of monkey Superior Colliculus in saccadic eye-head gaze shifts.*

This research has been very successful, with many papers in high-rated journals like Science, Nature Neuroscience, J. Neurophysiology, and J. Neuroscience (see below).

An important focus has been *plasticity* in human sound localization. Studies have been performed with congenitally blind subjects, with monaurally deaf subjects, as well as with visually and auditory normal subjects who underwent specific auditory (swapped ears, ear moulds) or visual manipulations (distorting glasses). Our studies have clearly shown that the (adult!) human auditory system maintains a surprisingly high degree of plasticity, and that different non-acoustic signals play a role in calibrating sound-localization. These signals include information about eye position, head orientation, as well as visual input. The relative weighting of these signals, however, is unknown, nor is the underlying neural mechanism.

Our recordings in trained rhesus monkeys showed that the midbrain Inferior Colliculus (IC) receives a signal about eye position (and presumably also of head movements). Such signals are needed to enable the formation of a stable representation of sound locations in *space*, irrespective of intervening eye- and/or head movements.

We have pursued this research line on trained, *head-unrestrained monkeys* making orienting eye-head movements to sounds, while we recorded from single cells in the midbrain Inferior and Superior Colliculus (VICI), as well as in auditory cortex (Marie-Curie grant). The former neural structures are crucial for the generation of coordinated eye-, head- and body movements, but have so far been studied in head-restrained animals only. The latter structure is thought to be involved in the planning and selection of these responses and may also incorporate the mechanisms for updating of the difference reference frames.

By (reversibly) interfering with the system (applying ear plugs, ear molds, optical means, microstimulation, local inactivation in IC and SC, etc.) the behavioural consequences, as well as neural correlates of adaptation, will be studied in detail.

A second research line has been devoted to unravel the neural code underlying the generation of rapid eye movements by neurons in the midbrain SC. Based on recordings from over 150 single-units, we have recently proposed a neural model that explains the generation of saccadic eye movements in great detail ('from single spikes to full behaviour'). This research has recently been extended to eye-head coordination in the head-unrestrained monkey in collaboration with prof Edward Freedman (Univ Rochester, New York).

A recent third research line concerns the representation and processing of sounds at subcortical (IC) and cortical levels (primary auditory cortex, and core). We are currently recording in the primary auditory cortex of a rhesus monkey that is trained in a signal-detection task. Our findings indicate that task-related aspects strongly modulate the acoustic response properties of cortical neurons, without affecting their spectro-temporal receptive fields. The modulations can be modeled by assuming a low-frequency top-down modulation that multiplicatively interacts with the high-frequency phase-locked stimulus-evoked (bottom-up) activity.

A fourth line of research is clinical. In collaboration with the Department of Otolaryngology (profs. Snik and Mylanus) we have acquired substantial funds (from Oticon, DK, Advanced Bionics, CH, and Cochlear, B) to study the effects of bone-anchored hearing aids, air-transducing hearing aids and cochlear implants on binaural and bimodal processing. In future work we aim to explore the neural plasticity involved in adapting to these devices, and to develop optimal fitting procedures and prospective diagnostics for individual patients (NeuroCIMT project). We include combined Near-Infrared Spectroscopy with EEG to perform neuro-imaging in patients with hearing devices that an otherwise not be tested in fMRI scanners.

I also collaborated with prof Jan Buitelaar (psychiatry). We published a joint paper on sound-localisation behaviour of autistic individuals.

With my newly acquired ERC Advanced Grant (per Jan 2017) I have started a new, fifth research line into the exciting field of robotics, in which we aim to develop a humanoid audio-visual-motor eye-head system that is governed by the same principles as the primate gaze-control system. A tight collaboration has been initiated with prof. Alexandre Bernardino and his Visual Robotics group from the Instituto Técnico Superior of the Universidad de Lisboa, where several master students, a PhD student and a postdoc work on our humanoid 3D eye-head motor-control system. See website <https://www.mbfys.ru.nl/~johnvo/OrientWeb/orient.html> for more information.

## International activities

From 1989-1990:	Postdoctoral research in collaboration with Profs. Hepp and Henn at the Neurology Dept. in Zürich, Switzerland.
Summer of 1991:	Extended research visit at the Neurology Dept. in Zürich. The postdoctoral research on the <i>neural control of three-dimensional eye movements</i> has been very successful, yielding six research papers in high-rated journals (Science, J. Neuroscience, J. Neurophysiology), book chapters and conference proceedings (see below).
1998-2001:	Coordinator of a Human Frontiers Research Grant (0174-1998/B), together with Prof. D. Munoz (Kingston, Ont., Canada), Prof. A. Meredith (Richmond, Va, USA), Prof. Behan (Madison, Wi, USA), and Prof. G. Paige (Rochester, NY, USA). The project involved numerous short-term (about a week) to longer-term (up to six weeks) visits to and from the labs of the participants. Results are described in recent papers in the J. Neurophysiology (Corneil et al., 2002) and Nature Neuroscience (Zwiers et al., 2003).
1999-2004:	Dutch representative at the COST B10 European network on ' <i>Brain damage Repair</i> ', involving a number of visits (one day) and meetings (up to 3 days) to Brussels and Paris.
Sept. 1998:	Co-organizer of a ' <i>Summerschool on Eye Movements</i> ' in Leuven, Belgium, together with dr. P. de Graaf from the KU Leuven.
2002-2004:	NATO research grant on ' <i>eye-eyelid coordination</i> ' (in collaboration with dr. F. van der Werf, UvA, Amsterdam, Prof. Trontelj, Ljubljana, Slovenia, and Prof. G. Evinger, NY, USA). This grant involves brief (up to two weeks) research visits to and from each others' labs.
April 2002:	Co-organizer of an International Symposium on ' <i>Multisensory Interactions Subserving Orienting Behavior</i> ' in Naples, Florida, together with Prof. G. Paige (Rochester, NY, USA). About 100 participants attended this meeting. We were able to acquire two supportive grants from NASA and the NIH, to cover the expenses of all speakers and 15 PhD's and postdocs (US\$60k).
May-Sept 2009	Sabbatical visits at the University of Rochester and Pittsburgh University to collaborate with prof Freedman and prof Ghandi
Sept 2011	Co-organizer of an international Autumn School on Perception and Action in Groesbeek, NL.
July 2013	Co-organizer Gordon Conference on Eye Movements (Stonehill College, MA, USA) Member of the board of the Society for the Neural Control of Movement (NCM)
April 2014	Co-organizer of Vestibular Satellite meeting of the NCM in Amsterdam
Oct 2014	Organizer international Kick-Off meeting for HealthPAC project Organizer international Winter School for HealthPAC (January 2015)
July 2015	Organizer (co-chair) of the Gordon Conference on Eye Movements (Bentley College, MA, USA) Co-Organizer international Summer School for HealthPAC/COSMO

Prof. Van Opstal has been invited to present his work at local seminars and conferences in Toronto (Can), Kingston (Can), Rochester (NY, USA), Richmond (Va,

USA), Oldenburg (D), Sevilla (E), Paris, Oxford, Manchester, Magdeburg (D), Zürich (CH), Tübingen (D). He has also been invited to participate as a lecturer in Winter Schools (Bochum, Utrecht, Lunteren) and Summer Schools (Leuven, Oldenburg, Groesbeek).

He is a regular reviewer of papers for practically all Systems Neuroscience journals, including Science and Nature, and is regularly asked to review large grant proposals, such as for the National Science Foundation (USA), and the Human Frontiers Science Program.

**The Media.** On several occasions, articles about my work (e.g. my plasticity studies) have appeared in the popular press (in national newspapers: De Telegraaf, Algemeen Dagblad, De Volkskrant, the NRC, as well as in popular science journals, like The Scientist).

Prof. Van Opstal has given several live interviews on the Dutch radio (to be found on his website), as well as on the BBC World Service, as a result of the appearance of his papers in Nature Neuroscience, and the Journal of Neuroscience.

In the summer of 2005, he was asked to contribute to the popular Dutch TV's children's programme *'Het Klokhuis'*, for which most scenes were shot in his laboratory on August 11. The programme is entirely dedicated to spatial hearing (title: *'Waarom hebben we twee oren?'* or, in English: *"Why do we have two ears?"*). The program was broadcasted in the spring of 2006, and is still repeated on Dutch television in half-year intervals. Another television appearance was at the VPRO science program *'Hoe?Zo!'* in 2009, about auditory plasticity ('Owl-ears'). A more recent TV appearance on Gelderland TV (March 2017) revolved around the vestibular system and the new vestibular setup in his lab. In Dec. 2018 he performed on dutch TV in the National Science Quiz on a topic related to pitch perception.

## **Other academic activities**

### ***Current Teaching:***

Prof. Van Opstal teaches at the Faculty of Science (curriculum of Physics and Biology) and at the Faculty of the Humanities (Master programme Cognitive Neuroscience). He was up until recently responsible for nine yearly courses, reaching over 200 students per year:

- (i) Introduction Neuroscience (physics, 1<sup>st</sup> yr, 3 ECTS, 40-50 students),
- (ii) Neurophysics 1 (Physics, 2<sup>nd</sup> yr, 3 ECTS, 25-30 students),
- (iii) Psychophysics 1 (Physics, 2<sup>nd</sup> yr, 3 ECTS, 10 students),
- (iv) Neurobiophysics (Biology, 3<sup>rd</sup> yr, 6 ECTS, 30-40 students),
- (v) Auditory Perception and Technology (Master physics, 3 ECTS, 10 students).
- (vi) Methods in Neuroscience (Master physics, 3 ECTS, 30 students)
- (vii) Psychophysics 2 (Master Physics, 6 ECTS, 5 students)
- (viii) Optimising Cognitive Function (Master SMI, 3 ECTS, 30 students)
- (ix) Systematic Reviews in Neuroscience (Master neuroscience, 6 ECTS, 30-40 students)
- (x) Neurobiophysics (Physics, master, 3 ECTS, 11 students)

At present, he teaches courses (i), (iii), (iv), (v), (vii) and (x) and coordinates the Master's specialisation *Neurophysics* of the Physics and Astronomy master's program.

**Management:**

- Prof. Van Opstal was the faculty's coordinator of the recent International Visitation of the Physics Curriculum (November 2001, June 2010). He was responsible for the coordination and preparation of the internal review report for the committee: '*Onderwijsvisitatierapport t.b.v. de Opleiding Natuur- en Sterrenkunde, RUN, 1995-2000*'. He also acted as host for the international committee and organized their visit to Nijmegen.
- Prof. Van Opstal has acted as Chairman of the Physics Curriculum Committee of the Physics Faculty for a period of four years (1999-2003). He has been a member of that committee since 1996.
- He is also a member of the faculty's Public Relations committee, that aims to coordinate and promote the publication of research results of groups within the faculty in the national press.
- Prof. van Opstal acted as the central coordinator of the Science Curriculum (Natuurwetenschappen) from 2005-2010.
- Prof. van Opstal is currently a member of the Exam Committee and the Teaching Committee of the Molecular Sciences curriculum
- Prof. van Opstal is chairman of the Radboud Honours Programme of the Science Faculty.
- Prof. van Opstal is the coordinator of the large-scale international Marie-Curie project HealthPAC.
- Prof. van Opstal is the head of the Department of Biophysics since Sept. 2010 (about 30-35 fte).
- Since Nov 2018 Prof van Opstal is the Director of the Donders Centre for Neuroscience at the Science Faculty (80 fte).

**Other:** Prof. Van Opstal has acted as an external expert at PhD exams of Universities in Oxford (UK), Germany: Aachen, Munich, Oldenburg), Belgium (Leuven), USA (Rochester, Pittsburgh), and Canada (Kingston, Toronto).

He is a member of the Editorial Board of the *Journal of Neurophysiology*, and of the open-access journal *Frontiers in Neuroscience*.

**Scholarships and prizes since 1999: Research Grants:**

ALW:	" <i>Role of Monkey Auditory Cortex in the Representation of Complex Sounds</i> " (1999-2002). One postdoc (dr. H. Versnel), about €200k
MaGW:	" <i>Het waarnemen van en het bewegen naar auditieve doelen</i> " (Programma subsidie)

	(2000-2004). One PhD student (drs. J. Vliegen), about €200k
ALW:	“ <i>Neural Interactions and the Effect of Head Orientation on Responses in the Inferior Colliculus of the Behaving Monkey</i> ” (2002-2006). One PhD student (drs. S. van Wetter). About €200k
HFSP:	Principal coordinator of a project concerning five labs from Canada (n=1), the USA (n=3) and the Netherlands (n=1). Title: “ <i>Multisensory Interactions Subserving Orienting Behaviour</i> ” (1998-2001). A total amount of US\$ 700k was awarded for the five labs. The Nijmegen lab received US\$ 191k, and appointed one PhD student (drs. Van Wanrooij).
NATO grant:	“ <i>Eye-eyelid coordination</i> ” (2002-2004). This grant involved US\$ 20,000 to be spent on visits to and from the participating labs (Nijmegen, Amsterdam, Ljubljana, New York).
EC-grant:	Marie-Curie Host Fellowships for Early Stage Research Training (EST) (2005-2008). This grant, about €1.7M, with about €170k for Nijmegen (1 PhD, drs. P. Bremen) had been obtained from the EC to initiate a European collaboration on monkey sensory processing, and involved 10 labs within seven European countries (Germany (four universities), France, UK, Netherlands, Belgium, Switzerland, and Italy (each one institute)). The grant was obtained within the EC’s sixth framework (only 6% out of 867 submissions was awarded).
VICI grant	The most prestigious grant in the Dutch funding system, amounting € 1.34M for five years (three PhD students, and two postdocs).
IDP grant	Large single-partner IDP grant of the Marie-Curie programme of the EU: € 3.5M to appoint 14 PhD students (2014-2017). Only 1.1% funding chance for this grant type (134 ITNs / 1350 applications, only 15 IDP)!
STW grant	Multi-partner technological grant (NeuroCIMT, € 4M, coordinated by TU Delft), with my subproject OtoControl for 1 Phd, 1 postdoc (€ 600k; 2016-2021).
ERC AdG	ORIENT (€ 2.5M) on eye-head gaze control in complex multisensory environments. The most prestigious personal research grant in the EU (2017-2022).

<b>Further research grants since 2006:</b>					
<b>Funding agency &amp; name of the grant</b>	<b>Total amount (Euros)</b>	<b>Amount for group</b>	<b>Duration (start – end)</b>	<b>title</b>	<b>Main or co-applicant</b>
NWO – cognition	€ 500k	€ 250k	2006-2010	Role of auditory cortex in object formation.	Co (with prof. Formisano, UM)
FP6-Marie Curie EST	€ 2.5M	€ 170k (1 PhD)	2006-2010	SensoPrim	co (10 PhD’s, Europe)
DCN	€ 100k	€ 100k*	2010-2011	Understanding and improving sound-localization in the hearing impaired	co (with Snik, ENT dept.)
Oticon (Dk)	€ 210k	€210k*	2010-2012	Bone-Anchored Hearing Aids	co (with Snik, ENT dept.)
ENT dept	€ 63k	€ 63k*	2010	Near-Infrared Spectroscopy: application to CI patients	co
RU	€ 200k	€ 200k	2007-2011	Mechanisms of dynamic	main

				spatial orientation	
Advanced Bio-nics-Phonak (CH)	€ 239	€ 239*	2012-2015	Bimodal Hearing with Cochlear Implant and a Hearing aid	co (with Snik, ENT dept.)
ENT dept.	€ 140k	€140k*	2012-2013	Hearing Implant Lab investment (postdoc, 2 yr)	co
KNAW	€ 23k	€ 23k	2011	Visiting Professor grant for prof Martha Flanders	main
NWO-MaGW	€ 210k	€ 210k	2012-2015	Role of primate auditory cortex in sound-source identification	main
NWO-ALW	€ 274k	€ 274k	2012-2015	Role of midbrain superior colliculus in orienting in complex audiovisual scenes.	Main
NWO-MagW Talent	€ 180k	€ 180k	2012-2015	Updating prior information in audiovisual orienting.	Main
FP7-Marie Curie ITN (NETT)	€ 5.5M (main: Univ. Nottingham)	€ 260k (1 PhD)	2012-2015	Computational modeling of the audiomotor system with spiking neurons.	Co (17 PhDs, 3 postdocs)
FP7-Marie-Curie IDP (HealthPAC)	€ 3.5M	€ 2.0M	2014-2017	Perception and Action in Health and Disease	Main, 14 PhDs (6 in my group)
FP7-Marie-Curie ITN (iCARE)	€ 5.4M (main: Univ. Leuven)	€ 380k	2014-2017	Auditory rehabilitation in children	Co (1 PhD and 1 postdoc in my group)
STW NeuroCIMT	€ 4.0M	€ 600k	2016-2021	OtoControl	Co (1 PhD and 1 postdoc)
ERC AdG	€ 2.523M	€ 2.523M	2017-2022	ORIENT	3 postdocs, 2 PhD, 1 technician, 0.2 staff

#### List of publications

**Publications (h-factor September 2019: 47) (source: Google Scholar)**  
**Total number of citations: 7120**

All publications can be found on my webpage at

<http://www.mbfys.ru.nl/~johnvo/papers.htm>

#### *Top 10 publications since 2003 in journals within the top 10% of their field:*

M.P. Zwiers, **A.J. Van Opstal** and G.D. Paige

Plasticity in human sound localization induced by compressed spatial vision.  
*Nature Neuroscience*, 6: 175-181, 2003 IF 15.9

M.M. Van Wanrooij and **A.J. Van Opstal**

Contribution of head shadow and pinna cues to chronic monaural sound localization. *Journal of Neuroscience*, 24: 4163-4171, 2004 IF. 8.0

M.P. Zwiers, H. Versnel and **A.J. Van Opstal**

Involvement of monkey Inferior Colliculus in spatial hearing.  
*Journal of Neuroscience*, 24: 4145-4156, 2004 IF. 8.0

J. Vliegen, T.J. Van Grootel and **A.J. Van Opstal**

Dynamic sound localization during rapid eye-head gaze shifts.  
*Journal of Neuroscience*, 24: 9291-9302, 2004 IF. 8.0

M.M. Van Wanrooij and **A.J. Van Opstal**



- Relearning sound localization with a new ear.  
*Journal of Neuroscience*, 25: 5413-5424, 2005 IF: 8.0
- H. Versnel, M.P. Zwiers and **A.J. van Opstal**  
 Spectrotemporal response properties of Inferior Colliculus neurons in alert monkey. *Journal of Neuroscience*, 29: 9725-9739, 2009 IF 8.0
- P. Bremen, M.M. Van Wanrooij, and **A.J. Van Opstal**  
 Pinna Cues Determine Orienting Response Modes to Synchronous Sounds in Elevation. *Journal of Neuroscience*, 30:194-204, 2010 IF 8.0
- D.C.P.B.M. Van Barneveld, A.C.M. Kiemeneij, and **A.J. van Opstal**  
 Absence of spatial updating when the visuomotor system is unsure about stimulus motion. *Journal of Neuroscience*, 31: 10558-10568, 2011 IF: 8.0
- T.J. van Grootel, M.M. Van Wanrooij, and **A.J. van Opstal**  
 Influence of static eye and head position on tone-evoked gaze shifts. *Journal of Neuroscience*, 31: 17497-17504, 2011 IF: 8.0
- H.H.L.M. Goossens and **A.J. Van Opstal**  
 Optimal control of saccades by spatial-temporal activity patterns in monkey Superior Colliculus. *PloS Computational Biology*, in press, 2012 IF: 6.0

#### PhD students and postdocs in the lab

#### List of graduated PhD students supervised by John van Opstal

	<i>Name PhD student</i>	<i>Graduated on</i>	<i>Institute</i>	<i>Current position</i>
1	Maarten Frens	1996	Radboud Univ Nijmegen	Professor of Neurophysiology Erasmus Univ. Rotterdam, NL
2	Jeroen Goossens	1999*	Radboud Univ Nijmegen	Assistant prof. neurophysiology RUN; Vidi grant
3	Paul Hofman	2001	Radboud Univ Nijmegen	Visual Technology at Philips NatLab Eindhoven, NL
4	Marcel Zwiers	2003	Radboud Univ Nijmegen	Research Fellow at Donders Inst., RUN; Veni grant
5	Marc van Wanrooij	2005	Radboud Univ Nijmegen	Assist. Prof. Biophysics
6	Joyce Vliegen	2006	Radboud Univ Nijmegen	ICT at revenue service, NL
7	Peter Bremen	2010	Radboud Univ Nijmegen	Assist. Prof. Erasmus Univ.
8	Tom van Grootel	2011	Radboud Univ Nijmegen	Postdoc Tübingen, Ger
9	Denise vBarneveld	2012	Radboud Univ Nijmegen	Audiology U Maastricht
10	Joke Kalisvaart	2013	Radboud UMC	Postdoc
11	Jacob Duijnhouwer	2013	Radboud Univ Nijmegen	Postdoc USA
12	Yoolla Massoudi	2014	Radboud Univ Nijmegen	Business ICT
13	Artem Platonov	2014	Radboud Univ Nijmegen	Postdoc
14	David Arnoldussen	2015	Radboud Univ Nijmegen	Postdoc
15	Lidwien Veugen	2017	Radboud Univ Nijmegen	Business sector
16	Sigrid Dupan	2018	Radboud Univ Nijmegen	Postdoc UK
17	Sebastian Ausili	2019	Radboud Univ Nijmegen	Postdoc USA
18	Bahadir Kasap	2019	Radboud Univ Nijmegen	Business ICT
19	Rachel Ege	2019	Radboud Univ Nijmegen	Mother
20	Anna Geuzebroek	2019	Radboud Univ Nijmegen	Postdoc
21	Karlijn Wouterse	2019	Radboud Univ Nijmegen	Postdoc
22	Bahram Zonooz	2020	Radboud Univ Nijmegen	Industry

23	Snandan Sharma	2020	Radboud Univ Nijmegen	Postdoc
24	Katharina Vogt	2020	Radboud Univ Nijmegen	Entrepreneur
25	Luuk van de Rijt	2020	Radboud Univ Nijmegen	ENT doctor
26	Andrea Bertana	2020	Radboud Univ Nijmegen	-

### **\*Summa Cum Laude**

#### **Postdocs supervised by John van Opstal**

	<i>Name postdoc</i>	<i>Period</i>	<i>Institute</i>	<i>Current position</i>
1	Huib Versnel	1999-2002	Radboud	Audiologist Utrecht Univ
2	Marcel Zwiers	2005-2006	Radboud	Res. fellow Donders Inst.
3	Rob vd Willigen	2005-2011	Radboud	Teacher Rotterdam School
4	Marc v Wanrooij	2008-2013	Radboud	See below
5	Martijn Agterberg	2009-2013	Radboud	Research associate
6	David Magezi	2012-2014	Radboud	Postdoc
7	Peter Bremen	2014-2016	Radboud	Assistant professor
8	Anja Roye	2014-2015	Radboud	entrepreneur
9	Marc v Wanrooij	2014-2017	Radboud	Assistant Professor
10	Yoolla Massoudi	2013-2015	Radboud	Postdoc Cambridge
11	Lei Wang	2017-2020	Radboud	Postdoc Otocontrol
12	Annemiek Barsingerhorn	2017-2021	Radboud	Postdoc Orient/ DI graduate school
14	Francesca Rocchi	2019-2020	Radboud	Postdoc UK
15	Arizoo Alizadeh	2019-2022	Radboud	Postdoc Orient
16	Alais Bernas	2020-2022	Radboud	Postdoc Orient
17	Reza Javanmard	2020-2022	ITS Lisboa	Postdoc Orient

#### **PhD students currently supervised by John van Opstal**

	<i>Name PhD student</i>	<i>Expected graduation</i>	<i>Institute</i>
1	José García Uceda	July 2021	Radboud University Nijmegen
2	Guus van Bentum	April 2021	Radboud University Nijmegen
3	Elisabeth Noordanus	September 2021	Radboud University Nijmegen
4	Jesse Heckman	September 2021	Radboud University Nijmegen
5	Jasper van der Heijdt	September 2021	Radboud University Nijmegen
6	Akhil John	December 2021	Inst. Técnico Superior Lisboa

#### **PhD students for whom John van Opstal will act as promotor (HealthPAC)**

	<i>Name PhD student</i>	<i>Expected graduation</i>	<i>Institute</i>
22	Leslie Guadrón	April 2021	Radboud UMC
23	Sonal Sengupta	April 2021	Radboud UMC
24	Andrea Bertana	Dec 2020	Radboud University Nijmegen

**1984**

1. Van Gisbergen J.A.M., Van Opstal A.J.  
Parameterization of saccadic velocity profiles.  
*Theoretical and Applied Aspects of Eye Movement Research*,  
Gale AG and Johnson F (Eds), Elsevier Publ, North Holland, pp. 87-94, 1984.

**1985**

2. Van Gisbergen J.A.M., Van Opstal A.J., Schoenmakers J.J.M.  
Experimental test of two models for the generation of oblique saccades.  
*Exp. Brain Res.* 57: 321-336, 1985
3. Van Opstal A.J., Van Gisbergen J.A.M., Eggermont J.J.  
Reconstruction of neural control signals for saccades based on an inverse method.  
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**1987**

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