

Annual Report

2016



Helmholtz Research School

ANNUAL REPORT

2016

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Preface

We are honored to present the Helmholtz Research School 2016 annual report. To provide the reader with a flavor of the true gist, we have included a summary of the mission of the education program as well as a survey of all the educational activities from 2011 to 2016, including the famous lectures and retreats. As is custom in a research-school annual report, 2016 highlights (including dissertations) and scientific output are also listed.

We also thank and welcome several people: Stefan van der Stigchel and Chris Paffen as past Helmholtz-lectures organizers; Estrella Montoya and Nathan van der Stoep for their current efforts as Helmholtz-lectures organizers; Kayla Stone and Paul Zerr for their work as PhD representatives in the Helmholtz PhD council; Anouk Keizer and Sjoerd Stuit for organizing the 2016 Helmholtz retreat; and the new members of the Scientific Advisory Board, prof. Barbara Sahakian (Cambridge University) and prof. Manos Tsakiris (University of London).

For more information, please visit our website at <https://helmholtzschool.nl/>.

Happy reading!

Leon Kenemans
Chris Dijkerman
Johanna Baas

Mission and courses of the Helmholtz Cognition and Behavior Education program

The Helmholtz Research School is a collaboration of three universities (Utrecht University, Erasmus University Rotterdam, Vrije Universiteit Amsterdam) and is a national research school (KNAW-accredited 2014). The major goals of the Helmholtz School are

- Creation and maintenance of educational facilities for training of PhD students in the field of psychology, physics, physiology, and biology, within the general framework of Cognitive Neuroscience.
- Stimulation of scientific research at the intersection of experimental (neuro)psychology, physics, medicine, and biology.
- Coordination of research activities and postgraduate education in the scientific fields as well as acquisition of funds for the financing of research and education.

The aim of the Helmholtz educational programme ('Cognition and behaviour') is to offer a truly multi-disciplinary training in the study of information processing in intact and damaged biological nervous systems. This includes the study of sensation, perception, memory, emotion, social cognition, and motor control. The training aims at promoting a multidisciplinary approach to scientific issues, easy cooperation and communication between students trained in different disciplines, awareness of where to find various kinds of expertise and how to profit from a multidisciplinary environment. The educational programme is compulsory for all PhD students and serves a triple purpose:

- Broadening of knowledge of biological information processing systems in general.
- Deepening of knowledge in the field of the PhD study.
- Acquiring skills for the presentation of scientific results

The curriculum (20 ECTS for a 4-year PhD) includes attendance of the PhD student days ('AIO-days'), participation in the bi-annual Helmholtz Retreat, attendance of the Helmholtz lectures and related activities (see overview below), general methodological courses (e.g. English writing, presenting, statistics), and specialised courses (e.g. Sensory systems, Affective Neuroscience, Motor control, Cognitive Neuropsychology; see overview below).

Selection and admission. The school is open to candidates having a relevant master's degree, mostly in (Cognitive) Neuroscience, but recent examples also include Social & Health Psychology, Drug Innovation, Neuropsychology, and Clinical Psychology. Criteria for acceptance are field and quality of the prior training, motivation, personality, and capabilities to express oneself in writing and speech. The students work on projects that fit in with the research program of the school. The initiative for new projects will generally come from Helmholtz faculty members.

The current number of PhD student members is 28 in the Cognition and Behavior program, and a similar number of affiliates (attending lectures, retreats, Ph-D days, and incidental courses).

Evaluation: Systematic evaluation has been carried out for the courses linear systems (always above 80% out of 100), sensory systems (on average 4 out of 5), and Motor control (3.7-4 out of 5). Ph D students value very much the biannual retreats because of the 3-day exchange of scientific information among themselves and with faculty and keynote speakers. This also holds for the Helmholtz lecture events which allow PhD students to directly interact with renowned international researchers.

Dissertations and other highlights 2016

Doctoral dissertations 2016

02-09-2016, **Barendrecht, M.**, UU, Experimental Psychology

“Two eyes, one vision – binocular motion perception in human visual cortex”.

Promotor: Prof. Dr. S.O. Dumoulin, Prof. Dr. F.A.J. Verstraten

Co-promotors: Dr. B. Rokers

25-06-2016, **Gayet, S.**, UU, Experimental Psychology, CUM LAUDE

“From the blind eye to the mind’s eye: how behavioral relevance determines access to visual awareness”.

Promotor: Prof. Dr. F.A.J. Verstraten, Prof. Dr. A. Postma

Co-promotors: Dr. S. van der Stigchel, Dr. C. Paffen

08-01-2016, **Oudman, E.**, UU, Experimental Psychology

“Reconstructing cognition in Korsakoff’s syndrome – Diagnosis, residual capacities, and rehabilitation”.

Promotor: Prof. Dr. A. Postma

Co-promotors: Dr. S. van der Stigchel, Dr. T.C.W. Nijboer

26-08-2016, **Menger, R.**, UU, Experimental Psychology

“Can’t touch this: Understanding information processing for obstacle avoidance behavior”.

Promotor: Prof. Dr. H.C. Dijkerman

Co-promotors: Dr. S. van der Stigchel

Grants/ Prizes

Sita ter Haar

VENI grant (€250 000), project *“Causal mechanisms in birdsong learning as a model for human speech acquisition”*

Stefan van der Stigchel

NWO/ ORA grant (€270 000), project *“Control of attention by the motor system”*

Jan Koenderink

Humboldt research award from the Alexander-von-Humboldt-Foundation (see <https://www.humboldt-foundation.de/web/humboldt-award.html>)

Stefan van der Stigchel

Book: Attention, how it works

Roy Hessels

UU Psychology Maarten van Son junior prize for teaching

Leon Kenemans

UU Psychology Teacher of the year 2016

Helmholtz retreat 2016 (see appendix for pictures!)

For full program see https://helmholtzschool.nl/wp-content/uploads/sites/38/2016/10/HH_retreat_booklet.pdf

Helmholtz lectures 2016

Each academic year, the Helmholtz Research School organizes five or six seminars on a specific topic. The aim is to bring leading experts in the field to our institute who present an up-to-date review of their area of research and to offer research students and faculty the opportunity to discuss current issues.

For the Helmholtz Lecture series the following international experts visited our institute in 2016:

Noam Sobel January 29	Weizmann Institute of Science, Rehovot, Israel
Amir Amedi March 4	The Hebrew University of Jerusalem, Jerusalem, Israel
Mark Wallace April 15	Vanderbilt University, Nashville USA
Philipp Sterzer May 27	Charité University Medicine Berlin, Berlin, Germany
David Nutt December 2	Imperial College London, London, UK

Overview of the education and training program 2011-2016

Year	Course (teachers/speakers/organizers)	# PhD	Activity
2011	6 Helmholtz lectures (Sheng He, John Foxe, John Rottwell, Robert Rafal, Mandayam Srinivasam, Robert Berwick)	40	Meet with and lecture by renowned international researchers (full-day program)
	Linear systems (M. Frens)	5	Course on data analysis and signal processing (2 EC)
	Affective neuroscience (J. van Honk, a.o C. de Dreu, D. Schutter, L. Kenemans, J. Baas)	6	Course on affective neuroscience (2 EC)
	Cognitive Neuropsychology: From patients to functional models (A. Postma)	10	Course on cognitive neuropsychology (2 EC)
2012	6 Helmholtz lectures (Anthony Movshon, Nikos Logothetis, Steven Luck, Luiz Pessoa, Olaf Blanke, Geriant Rees)	40	Meet with and lecture by renowned international researchers (full-day program)
	Helmholtz retreat with Karl Gegenfurtner, Jean Vroomen, Lex Wertheim	40	3-day conference with Ph-D presentations, (external) keynote speakers, Ph-D-only event
	Linear systems (M. Frens)	6	Course on data analysis and signal processing (2 EC)
	Sensory systems (C. Paffen, a.o. S. Dumoulin, R. van Wezel, J. Vroomen, A. Kappers)	9	Course on sensory systems (2 EC)
	Motor control (C. Dijkerman, J. Smeets, C. Erkelens)	10	Course on motor control (2 EC)
	Affective neuroscience (J. van Honk, a.o C. de Dreu, D. Schutter, L. Kenemans, J. Baas)	6	Course on affective neuroscience (2 EC)
2013	5 Helmholtz lectures (Rainer Goebel, Heiner Deubel, Michael Brainard, Simon Baron Cohen, Marisa Carrasco)	40	Meet with and lecture by renowned international researchers (full-day program)
	Linear systems (M. Frens)	7	Course on data analysis and signal processing (2 EC)
	Cognitive Neuropsychology: From patients to functional models (A. Postma)	10	Course on cognitive neuropsychology (2 EC)
	Ph D day	20	12 PhD and 1 or 2 faculty presentations; full day program
2014	3 Helmholtz lectures (Laure Pisella, Roi Cohen Kadosh, Stephen Engel)	40	Meet with and lecture by renowned international researchers (full-day program)
	Helmholtz retreat with Andrea Serino and Ole Jensen https://helmholtzschool.nl/2016/10/19/at-the-helmholtz-retreat-2016-june-29-july-1/	40	3-day conference with Ph-D presentations, (external) keynote speakers, Ph-D-only event
	Linear systems (M. Frens)	5	Course on data analysis and signal processing (2 EC)

	Sensory systems (C. Paffen, a.o. S. Dumoulin, R. van Wezel, J. Vroomen, A. Kappers)	8	Course on sensory systems (2 EC)
	Affective neuroscience (J. van Honk, a.o C. de Dreu, D. Schutter, L. Kenemans, J. Baas)	6	Course on affective neuroscience (2 EC)
	Ph D day	20	12 PhD and 1 or2 faculty presentations; full day program
2015	6 Helmholtz lectures (Maurizio Corbetta, Eus van Someren, John Reynolds, Lynn Nadel, Eric-Jan Wagenmakers)	40	Meet with and lecture by renowned international researchers (full-day program)
	Linear systems(M. Frens)	6	Course on data analysis and signal processing (2 EC)
	Cognitive Neuropsychology: From patients to functional models (A. Postma)	7	Summer school (2 EC)
	Ph D day	20	12 PhD and 1 or2 faculty presentations; full day program
2016	4 Helmholtz lectures (Noam Sobel, Amir Amedi, Mark Wallace, Philipp Sterzer, David Nutt)	40	Meet with and lecture by renowned international researchers (full-day program)
	Helmholtz retreat with Johan Wagemans and Karin Roelofs, https://helmholtzschool.nl/2016/10/19/at-the-helmholtz-retreat-2016-june-29-july-1/	40	3-day conference with Ph-D presentations, (external) keynote speakers, Ph-D-only event
	Linear systems (M. Frens)	7	Course on data analysis and signal processing (2 EC)
	Sensory systems (C. Paffen, a.o. S. Dumoulin, R. van Wezel, J. Vroomen, A. Kappers)	8	Course on sensory systems (2 EC)
	Cognitive Neuropsychology: From patients to functional models (A. Postma)	13	Summer school (2 EC)
	Ph D day	20	12 PhD and 1 or2 faculty presentations; full day program

2016 publications of the Helmholtz “full members” (PhD students in the Cognition and Behavior program)

Ammerlaan, J.W., Mulder, O.K., de Boer-Nijhof, N.C., Maat, B., Kruize, A.A., van Laar, J.M., van Os-Medendorp, H. & Geenen, R. (2016). Building a tailored, patient-guided online self-management program ‘ReumaUitgedaagd!’ for adults with a rheumatic disease: Results of a usability study and design for a randomized controlled trial. *JMIR research protocols*, 5 (2).

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APPENDIX: PICTURES FORM THE HELMHOLTZ RETREAT 2016





