


Curriculum Vitae

Degree	Dr./PhD./Assistant Professor	
Surname	Naber	
Givenname	Marnix	
Birth	1984	
Birth place	The Netherlands	
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Education

2020	Research leadership, Utrecht University
2018	Effective coordination and communication by assistant professors, Utrecht University
2008-2012	Neurophysics, Faculty of Physics, Philipps-University Marburg, Germany Graduate student (Dr, PhD) under the supervision of Wolfgang Einhäuser
2006-2007	Applied Cognitive Psychology, Utrecht University, The Netherlands Masters (M.Sc.) under the supervision of Frans Verstraten
2003-2006	Applied Cognitive Psychology, Utrecht University, The Netherlands Undergraduate (Bachelors, B.Sc.)
1997-2003	City Dalton College, Zutphen, The Netherlands Nature & Technology (High School)

Current Positions

2018-Now	Neurolytics B.V., Utrecht, The Netherlands Function: Head of Research & Development
2015-Now	Experimental Psychology, Utrecht University, The Netherlands Function: Assistant Professor

Previous Positions

2013-2015	Experimental Psychology, Leiden University, The Netherlands - Assistant Professor
2012-2013	Vision Sciences Laboratory, Harvard University, USA - Post-doc
2008-2012	inQUIRE / SMS-Coach, The Netherlands - Founder
2007-2008	Efocus-group / Medicores, The Netherlands - Functional Designer
2007	Vision Sciences Laboratory, Harvard University, USA - Internship

Scholarships/Grants/Awards

2019	Take-off Grant – Granted by NWO (EUR40.000)
2019	SMI Horizon 2020 Grant – Granted by ERC (EUR50.000)
2019	Uitzicht Grant - Granted by Rotterdamse Stichting Blindenbelangen (EUR60.000)
2018	Neuroscience and Cognition Grant – Granted by Utrecht University (EUR7.000)
2017	Uitzicht Grant - Granted by Rotterdamse Stichting Blindenbelangen, Janivo Stichting, ODAS stichting, and Dr. F.P. Fischer-Stichting (EUR300.000)
2015	Neuroscience and Cognition Grant – Granted by Utrecht University (EUR12.000)
2013	Conference Book Cover Design Award – Granted by Vision Sciences Society (USD250)
2012	Poster competition winner, neuroscience category – Awarded by the Association for the Scientific Study of Consciousness (ASSC)
2012	PhD Summa Cum Laude Grade (with distinction; only the top 5% students receive this) – Awarded by Philipps-University Marburg
2011	Rubicon Grant – Granted by NWO Dutch Organization for Scientific Studies (EUR54.561)
2011	Travel Award – Granted by Australian Neuroscience Society (AUD244)
2007	Travel award – Granted by NWO-pioneer program (EUR1.500)

2007	MSc. Cum Laude Grade (with honors; only the top 10% students receive this) - Awarded by Utrecht University
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PhD Supervision

2019-now	Co-promotor of Brendan Portengen - Pupillograph perimetry for children with CVI
2018-2020	Co-promotor of Felix Hermsen - Physiological indicators of cognitive processes
2017-now	Co-promotor of Yun Ding – Interaction between visual working memory & awareness

Teaching

2015-now	Coordinator and lecturer of several bachelor and master courses at Utrecht University Courses: cognitive neuroscience, fundamentals in neuroscience, psychophysics in Matlab/Python, EEG analyses in Matlab, fMRI analyses in Matlab, psychology as a science, introduction to cognitive sciences. Direct supervisor of >10 Master Theses, >30 Bachelor Theses, >10 Internships. Many of these projects resulted in publications.
2013-2015	Coordinator and lecturer of several BSc. and MSc. courses at Leiden University and Leiden University College Courses: emotion & cognition, cognitive psychology

Organization of Scientific Meetings

2017-now	Organizer of the Biannual Helmholtz Retreat in Schoorl, The Netherlands
2008	Voluntary Staff at European Conference on Visual Perception (ECVP)

Institutional Responsibilities

2018	PhD committee member of Yang Wang – Vrije Universiteit Medical Center, Netherlands
2017-now	Organizer of internal seminars – perception meetings Utrecht University, Netherlands
2017-now	Organizer of intervision meetings for assistant professors – Utrecht University
2014	PhD committee member – University of Cape Town, South Africa

Reviewing Activities

2019	Acta Psychologica, Journal of Behavioral Robotics
2018	Frontiers in Neurology, Behavior Research Methods, Biological Psychology, Physiology & Behavior, Scientific Reports
2017	Vision Research, PLoS ONE, Perception, NeuroImage, Journal of Cognition, Journal of Neurology and Experimental Neuroscience, Journal of Experimental Psychology, Computer Methods and Programs in Biomedicine, Cognition, Attention Perception & Psychophysics
2016	Scientific Reports, PNAS, PLoS ONE, Perception, Memory and Cognition, Journal of Neurology and Experimental Neuroscience
2015	Vision Research, Physiology and behaviour, iPerception, Attention Perception & Psychophysics

Scientific Memberships

2009-Now	Member of Vision Sciences Society
2007-Now	Member of European Conference on Vision and Perception
2015-Now	Member of Helmholtz Institute, The Netherlands
2013-2015	Member of Leiden Institute of Brain Sciences (LIBC), The Netherlands

Collaborators

Prof. Serge Dumoulin	Local, Experimental Psychology, Utrecht University
Prof. Stefan vd Stigchel	Local, Experimental Psychology, Utrecht University
Dr. Nathan van der Stoep	Local, Experimental Psychology, Utrecht University
Dr. Joris Elshout	Local, Experimental Psychology, Utrecht University
Dr. Giorgio Porro	National, Ophthalmology University Medical Center Utrecht

Prof. George A. Alvarez	International, Vision Sciences Lab, Harvard University, USA
Dr. Jan Brascamp	International, Department of Psychology, Michigan State University, USA
Dr. Peter Murphy	International, Department of Neurophysiology and pathophysiology, University Medical Center Hamburg, Germany

Skills

Software	Python/Matlab/PHP/HTML/CSS/Javascript/MySQL/GitLab/Github, Statistics, Microsoft software (office), Adobe software (design)
High School	Physics, Mathematics, Chemistry, Biology, Sociology, General Nature Sciences, Dutch, English, German, French, Latin, Greek
Languages	Dutch (Native), English (fluent), German (good)
Interests	Soccer, skiing, hiking, producing digital music

Journal Publications

In preparation	Kappen, M., Naber, M. (In prep.). Objective measurements of applicant motivation with remote psychophysiological recordings
	Van Helden, J., & Naber, M. (In prep.). Early and late event-related potentials in the visual cortex explain pupil constrictions to visual scenes and illusions.
	Portengen, B., Roelofzen, C., Imhof, S., Porro, G., Doumoulin, S., Fracasso, A., & Naber, M. (In prep.). Blind spot and visual field anisotropy detection with flicker pupil perimetry across brightness and task variations
	Portengen, B., Porro, G., Imhof, S., & Naber, M. (In prep.). Better sensitivity of flicker than single or multifocal pupil perimetry for detecting simulated scotomas in healthy individuals.
Submitted	Naber, M. , Elshout, J., & Van der Stigchel, S. (Submitted). Two hands are better than one: perceptual benefits by bimanual movements. <i>Journal of Vision</i> ,
	Schielen, Z., Verhaegh, J., Dijkerman, C., Naber, M. (Submitted). Functionality rather than likeability drives imitation
	Van der Stoep, N., van der Smagt, M., & Naber, M. (Submitted). Pupil responses to multisensory stimuli. <i>Scientific Reports</i> ,
	Ding, Y., Naber, M. , Sahakian, A., Paffen, C.L.E., Van der Stigchel, S. (Submitted). Complex objects matching the content of VWM are prioritized for access to awareness at the conjunction level. <i>Cognition</i> ,
	Ding, Y., Naber, M. , Paffen, C.L.E., Fabius, J.H., Van der Stigchel, S. (Submitted). Saccades reset the priority of visual information to access awareness. <i>Journal of Vision</i> ,
	Naber, M. , de Kloe, Y., Stuit, S., van der Stigchel, S., & Paffen, C. (Submitted). Adaptation effects of stimulus features on mixed perception in binocular rivalry. <i>Scientific Reports</i> ,
Published	Ding, Y., Paffen, C. L., Naber, M. , & Van der Stigchel, S. (2019). Visual working memory and saliency independently influence the priority for access to visual awareness. <i>Journal of vision</i>
	Naber, M. , Murphy, P. (2019). Pupillometric investigation into the speed-accuracy trade-off in a visuo-motor aiming task. <i>Psychophysiology</i>
	Van der Kooij, K., & Naber, M. (2019). An open-source remote heart rate imaging method with practical apparatus and algorithms. <i>Behavior Research Methods</i>
	Naber, M. , et al. (2018). Gaze-contingent flicker pupil perimetry detects scotomas in patients with cerebral visual impairments or glaucoma. <i>Frontiers in Neurology</i>
	Reuten, A., van Dam, M., & Naber, M. (2018). Pupillary responses to robotic and human emotions: the uncanny valley and media equation confirmed. <i>Frontiers in Psychology</i> , 9, 774.
	Derksen, M., van Alphen, Schaap, S., Mathot, S., & Naber, M. (2018). Pupil mimicry is the result of brightness perception of the iris and pupil. <i>Journal of Cognition</i>

- Ding, Y., **Naber, M.**, Gayet, S., van der Stigchel, S., & Paffen, C. (2018). Assessing the generalizability of eye dominance across binocular rivalry, onset rivalry, and continuous flash suppression. *Journal of Vision*
- Brascamp, J.W., **Naber, M.** (2017). Eye tracking under dichoptic viewing conditions: a practical solution. *Behavior Research Methods*, 49(4), 1303-1309
- Lippelt, D.P., van der Krint, S., van Herk, K., **Naber, M.** (2016). No acute effects of choline bitartrate food supplements on memory in healthy, young, human adults. *PLoS ONE*, 11(6), e0157714
- Naber, M.**, Vedder, A., Brown, S., Nieuwenhuis, S. (2016). Speed and lateral inhibition of stimulus processing contribute to individual differences in Stroop-task performance. *Frontiers in Psychology*, 7, 822
- Naber, M.**, Brascamp, J. (2015). Commentary: Is the frontal lobe involved in conscious perception? *Frontiers in Psychology*, 6, e01736
- Naber, M.**, Hommel, B., Colzato, L.S. (2015). Improved action coordination and pupil constriction after choline supplementation in healthy humans. *Scientific Reports*, 5, e13188
- Naber, M.**, Bergman, A., Eijgermans, W., Herman, A., Hommel, B. (2015). Similarity of actions depends on the functionality of previously observed actions. *Journal of Experimental Psychology: HPP*
- Frässle, S., Sommer, J., Hansen, A., **Naber, M.**, Einhäuser, W. (2014). Binocular Rivalry: Frontal activity relates to introspection and action, but not to perception. *Journal of Neuroscience*, 34(5), 1738-1747
- Damm, O., Malchus, K., Jaecks, P., Krach, S., Paulus, F., **Naber, M.**, et al. (2013). Different gaze behavior in human-robot interaction in Asperger's syndrome: An eye-tracking study. *International Symposium on Robot and Human Interactive Communication*
- Naber, M.**, Alvarez, G.A., Nakayama, K. (2013). Tracking the allocation of attention using human pupillary oscillations. *Frontiers in Psychology*, 4(919), 1664-1078
- Naber, M.**, Vaziri Pashkam, M., Nakayama, K. (2013). Unintended imitation affects success in a competitive game. *PNAS*, 110(50), 20046-20050
- Naber, M.**, Stoll, J., Einhäuser, W., Carter, O. (2013). How to become a mentalist: Reading decisions from a competitor's pupil can be achieved without training, but requires instruction. *PLoS ONE*, 8(8), e73302
- Naber, M.**, Nakayama, K. (2013). Pupil responses to high-level image content. *Journal of Vision*, 13(6), pii 7
- Naber, M.**, Frässle, S., Rutishauser, U., Einhäuser, W. (2013). Pupil size signals novelty and predicts later retrieval success for declarative memories of natural scenes. *Journal of Vision*, 13(2), pii 11
- Naber, M.**, Hilger, M., Einhäuser, W. (2012). Animal detection and identification in natural scenes: Image statistics and emotional valence. *Journal of Vision*, 12(1), pii 25
- Naber, M.**, Frässle, S., Einhäuser, W. (2011). Perceptual Rivalry: Reflexes reveal the gradual nature of visual awareness. *PLoS ONE*, 6(6), e20910
- Naber, M.**, Carlson, T.A., Verstraten, F.A.J., Einhäuser, W. (2011). Perceptual benefits of objecthood. *Journal of Vision*, 11(4), pii 8
- Naber, M.**, Gruenhage, G., Einhäuser, W. (2010). Tri-stable stimuli reveal interactions among subsequent percepts: Rivalry is biased by perceptual history. *Vision Research*, 50(8), 818-828
- Naber, M.**, Carter, O., Verstraten, F.A.J. (2009). Suppression wave dynamics reveal visual field anisotropies and sensitivity to inducer strength. *Vision Research*, 49(14), 1805-1813
- Paffen, C.L., **Naber, M.**, Verstraten, F.A.J. (2008). The spatial origin of a perceptual transition in binocular rivalry. *PLoS ONE*, 3(6), e2311

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