

Jan Willem de Gee

Curriculum Vitae

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born: 28-sept-1988



Education

- 2014–current **PhD**, *Dept. of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf, DEU.*
Thesis: "Neuromodulation of cortical decision networks"
Supervisor: Prof. Dr. Tobias Donner.
- 2011–2013 **Research Master Psychology (cum laude)**, *University of Amsterdam, NLD.*
Area of Study: *Brain and Cognition, Psychological Methods*
Thesis: "Dynamics of percept-contingent information patterns in retinotopic cortex during bistable perception"
Supervisors: Prof. Dr. Tobias Donner, Dr. Tomas Knapen, Dr. Natalia Petridou.
Average grade 9.0/10.
- 2007–2011 **Honours Bachelor Psychology (with merit)**, *University of Amsterdam, NLD.*
Specialisation: *Brain and Cognition.*
- 2000–2006 **High School (Gymnasium)**, *Oostvaarders College Almere, NLD.*
Area of Study: *Science and Health, with Latin.*

Academic positions

- 2018–current **Postdoctoral researcher**, *Dept. of Neuroscience, Baylor College of Medicine, Houston, Texas, USA.*
Supervisor: Dr. Matthew McGinley.
- 2014–current **PhD Student**, *Dept. of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf, Germany.*
Supervisor: Prof. Dr. Tobias Donner.
- 2014 **Research Assistant**, *VU Free University, the Netherlands.*
With: Prof. Dr. Jan Theeuwes and Dr. Tomas Knapen
- 2013 **Research Assistant**, *University of Amsterdam, the Netherlands.*
With: Dr. Tomas Knapen

Grants and Awards

- 2018 PhD completion grant, Hamburg University (stipend for 12 months; declined because of postdoctoral researcher position @ McGinley Lab, Houston, USA).
- 2017 Paper of the month award, University Medical Center Hamburg-Eppendorf (de Gee *et al.*, *eLife*, 2017).
- 2014 Best poster award, Donders Discussions.
- 2013 Travel grant, European Conference on Visual Perception.
- 2012 Best poster award, Research Master's Psychology Graduate Conference.
- 2009 Erasmus Mundus Scholarship.

2006 Fulbright Scholarship.

Memberships

Society for Neuroscience
Federation of European Neuroscience Societies
Association for Research in Otolaryngology
Dutch Neurofederation

Extra curricular

- 2017 CIFAR Winter School on the Neuroscience of Consciousness, Montebello, Canada.
2013 Erasmus Seminar on Mathematical Psychology, Oulanka, Finland.
2012 Erasmus Seminar on Mathematical Psychology, Debrecen, Hungary.
2009-2010 Liberal Arts, Fergusson College, India
Area of study: *Clinical Psychology, Experimental Psychology, Eastern Philosophy.*
Erasmus Mundus Scholarship.
2006-2007 Liberal Arts, Millersville University, USA
Area of study: *Psychology, Philosophy, Human Anatomy & Physiology, Calculus.*
Fulbright Scholarship.

Publications

- 2018 **de Gee JW**, Tsetsos K, McCormick DA, McGinley MJ* & Donner TH*. Phasic pupil-linked arousal reduces maladaptive decision biases across species and decision types. *bioRxiv* (*=Shared senior authorship)
2018 Urai EA, **de Gee JW** & Donner TH. Choice history biases subsequent evidence accumulation. *bioRxiv*.
2018 Kloosterman NA, **de Gee JW**, Werkle-Bergner M, Garrett DD & Fahrenfort JJ. Humans strategically shift decision bias by flexibly adjusting sensory evidence accumulation in visual cortex. *bioRxiv*.
2018 Colizoli O, **de Gee JW**, Urai EA & Donner TH. Task-evoked pupil responses reflect internal belief states. *Scientific Reports*, 8:13702.
2017 **de Gee JW**, Colizoli O, Kloosterman NA, Knapen T, Nieuwenhuis S & Donner TH. Dynamic modulation of decision biases by brainstem arousal systems. *eLife*, 6, e23232.
2016 Knapen T*, **de Gee JW***, Brascamp J, Nuiten S, Hoppenbrouwers SS & Theeuwes J. 2016. Cognitive and ocular factors jointly determine pupil responses under equiluminance. *PLoS ONE*, 11(5), e0155574. (*=Shared first authorship)
2014 **de Gee JW**, Knapen T & Donner TH. Decision-related pupil dilation reflects upcoming choice and individual bias. 2014. *Proceedings of the National Academy of Sciences USA*, 111(5), E618-E625. (Paper featured in *ScienceShots*: "Pupils predict the future", Jan 23st, 2014)

Conference proceedings

- submitted **de Gee JW**, Tsetsos K, McCormick DA, McGinley MJ & Donner TH. Phasic arousal optimizes auditory evidence accumulation. *Association for Research in Otolaryngology MidWinter Meeting*.
submitted Mridha Z, Shi J, Banta A, **de Gee JW**, Zhang W & McGinley MJ. Neural circuits and pupil readouts of motivated shifts in attentional (listening) effort. *Association for Research in Otolaryngology MidWinter Meeting*.

- 2018 Urai AU, **de Gee JW**, Tsetsos K & Donner TH. Choice history biases subsequent evidence accumulation. *Conference on Cognitive Computational Neuroscience*.
- 2018 **de Gee JW**, Tsetsos K, McCormick DA, McGinley MJ & Donner TH. Of mice and men: phasic pupil-linked arousal reduces perceptual and cognitive decision biases by altering evidence accumulation. *FENS Forum*.
- 2017 **de Gee JW**, Tsetsos K, McCormick DA, McGinley MJ & Donner TH. Phasic pupil-linked arousal reduces decision biases in mice and men. *Society for Neuroscience*.
- 2017 Donner TH, Knapen T & **de Gee JW**. Multiplexing of arousal-linked top-down signals in early visual cortex. *Society for Neuroscience*.
- 2017 Colizoli O, **de Gee JW** & Donner TH. Computational and neuromodulatory correlates of pupil dilation during perceptual choice. *Society for Neuroscience*.
- 2017 **de Gee JW**, Tsetsos K, McCormick DA, McGinley MJ & Donner TH. Phasic pupil-linked arousal reduces decision biases in mice and men. *International Conference on Auditory Cortex*.
- 2017 **de Gee JW**, Wilming N, Knapen T & Donner TH. Arousal boosts decision- and attention-related top-down signals in early visual cortex. *European Conference on Visual Perception*.
- 2017 Correa CMC, **de Gee JW**, Weaver M, Donner TH & van Gaal S. Decision confidence mediates feedback-related pupil dilation and P3 waveforms during sensory decision making. *Association for the Scientific Study of Consciousness*.
- 2016 **de Gee JW**, Colizoli O, Kloosterman NA, Knapen T, Nieuwenhuis S & Donner TH. Dynamic modulation of cortical and behavioral decision biases by brainstem arousal systems. *EPOS Attention Workshop*.
- 2015 **de Gee JW**, Kloosterman NA, Knapen T, Nieuwenhuis S & Donner TH. Decision-related pupil dilation reflects locus coeruleus activity and altered visual evidence accumulation. *Society for Neuroscience*.
- 2015 Kloosterman NA, **de Gee JW** & Donner TH. Effects of noradrenaline on visual evidence accumulation in human cortex. *Society for Neuroscience*.
- 2015 Urai AE, **de Gee JW** & Donner TH. Eye-opener: pupil dilation signals decision uncertainty. *Society for Neuroscience*.
- 2015 **de Gee JW**, Knapen T, Nuiten S, Hoppenbrouwers SS & Theeuwes J. Value in the eye of the beholder: pupil dilation reflects event value. *International Convention of Psychological Science*.
- 2015 Urai AE, **de Gee JW**, Knapen T & Donner TH. Eye-opener: decision certainty modulates feedback-related pupil dilation. *International Convention of Psychological Science*.
- 2014 **de Gee JW**, Knapen T, Nuiten S, Hoppenbrouwers SS & Theeuwes J. Value in the eye of the beholder: pupil dilation reflects event value. *Donders Discussions*.
- 2013 **de Gee JW**, Knapen T & Donner TH. Choice-related pupil dilation reflects the decision-maker's bias. *Nederlandse Vereniging voor Psychonomie*.
- 2013 Donner TH, **de Gee JW** & Knapen T. Pupil dilation reflects the dynamics and content of a perceptual decision. *Society for Neuroscience*.
- 2013 **de Gee JW**, Knapen T & Donner TH. Pupil dilation reflects the temporal evolution and content of a perceptual decision. *European Conference on Visual Perception*. (incl. ECVP travel grant).

Talks

- 2017 Invited speaker at McGinley labmeeting, Baylor College of Medicine, Houston, USA. 17 November 2017

- 2016 DFG-SFB retreat, University Medical Center Hamburg-Eppendorf, Hamburg. 3 November 2016
- 2015 Amsterdam Vision Meeting, VU University Amsterdam, the Netherlands. 8 December 2015
- 2015 Heeger lab meeting, Center for Neural Science, New York University, New York City, USA. 23 October 2015
- 2015 Donner, Forstmann, Nieuwenhuis, de Lange joint lab meeting, Dept. of Psychology, University of Amsterdam, the Netherlands. 24 June 2015
- 2015 ABC Brain Day, University of Amsterdam, the Netherlands. 1 June 2015
- 2015 ABC-BIC Neuroimaging Symposium, University of Amsterdam, the Netherlands. 28 April 2015
- 2014 Invited speaker at Donders Discussions, Donders Institute, Radboud University, Nijmegen, the Netherlands. 30 October 2014
- 2014 Theeuwes lab meeting, Dept. of Psychology, VU University Amsterdam, the Netherlands. 24 January 2014
- 2013 Donner, Forstmann, Nieuwenhuis, de Lange joint lab meeting, Dept. of Psychology, University of Amsterdam, the Netherlands. 25 June 2013
- 2013 Engel lab meeting, Dept. of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf, Germany. 13 June 2013