

Jan Willem de Gee

Curriculum Vitae

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born: 28-sept-1988



Education

- 2014–2019 **PhD (summa cum laude)**, *University Medical Center Hamburg-Eppendorf, DEU*.
Thesis: "*Neuromodulatory shaping of decision computations*".
Supervisor: Prof. Dr. Tobias Donner.
- 2011–2013 **Research Master Psychology (cum laude)**, *University of Amsterdam, NLD*.
Area of Study: *Brain and Cognition, Psychological Methods*.
- 2007–2011 **Bachelor Psychology (honours)**, *University of Amsterdam, NLD*.
Area of Study: *Brain and Cognition*.
- 2000–2006 **High School (gymnasium)**, *Oostvaarders College Almere, NLD*.
Area of Study: *Science and Health, with Latin*.

Academic positions

- 2019–current **Postdoctoral Associate**, *Baylor College of Medicine, Houston, Texas, USA*.
With: Dr. Matthew McGinley
- 2018–2019 **Research Technician**, *Baylor College of Medicine, Houston, Texas, USA*.
With: Dr. Matthew McGinley
- 2014–2018 **PhD Student**, *University Medical Center Hamburg-Eppendorf, DEU*.
With: Prof. Dr. Tobias Donner
- 2014 **Research Assistant**, *VU Free University, NLD*. With: Prof. Dr. Jan Theeuwes.
- 2013 **Research Assistant**, *University of Amsterdam, NLD*. With: Dr. Tomas Knapen.

Grants and awards

- 2019 Travel award, Association for Research in Otolaryngology MidWinter Meeting.
- 2018 PhD completion grant, Hamburg University (stipend for 12 months; declined because of research tech 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 award, 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

Service to the profession

Ad hoc reviewer for the following journals:

- Behavior Research Methods
- eLife
- Journal of Neuroscience
- Neuroimage
- Neuropsychologia
- PLOS Computational Biology
- Psychophysiology
- Scientific Reports

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

- preprint Mridha Z*, **de Gee JW***, Shi Y, Alkashgari R, Williams J, Suminski A, Ward MP, Zhang W & McGinley MJ. Graded recruitment of pupil-linked neuromodulation by parametric stimulation of the vagus nerve. *bioRxiv* (*=Shared first authorship)
- preprint **de Gee JW**, Tsetsos K, Schwabe L, Urai AE, McCormick DA, McGinley MJ* & Donner TH*. Phasic arousal suppresses suboptimal decision biases in mice and humans. *bioRxiv* (*=Shared senior authorship)
- 2019 Urai EA, **de Gee JW**, Tsetsos K & Donner TH. Choice history biases subsequent evidence accumulation. *eLife*, 8, e46331.
- 2019 Kloosterman NA, **de Gee JW**, Werkle-Bergner M, Garrett DD* & Fahrenfort JJ*. Humans strategically shift decision bias by flexibly adjusting sensory evidence accumulation. *eLife*, 8, e37321. (*=Shared senior authorship)
- 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.

Talks

- 2019 Invited speaker for NRI Seminar Series, Houston, USA.
- 2019 Conference talk at *Association for Research in Otolaryngology MidWinter Meeting*, Baltimore, USA.
- 2017 Invited speaker at McGinley lab meeting, Baylor College of Medicine, Houston, USA.
- 2016 DFG-SFB retreat, University Medical Center Hamburg-Eppendorf, Hamburg, DEU.
- 2015 Amsterdam Vision Meeting, VU Free University, Amsterdam, NLD.
- 2015 Heeger lab meeting, New York University, New York City, USA.
- 2015 Donner, Forstmann, Nieuwenhuis, de Lange joint lab meeting, University of Amsterdam, Amsterdam, NLD.
- 2015 ABC Brain Day, University of Amsterdam, Amsterdam, NLD.
- 2015 ABC-BIC Neuroimaging Symposium, University of Amsterdam, Amsterdam, NLD.
- 2014 Invited speaker at Donders Discussions, Donders Institute, Radboud University, Nijmegen, NLD.
- 2014 Theeuwes lab meeting, VU Free University, Amsterdam, NLD.
- 2013 Donner, Forstmann, Nieuwenhuis, de Lange joint lab meeting, University of Amsterdam, Amsterdam, NLD.
- 2013 Engel lab meeting, University Medical Center Hamburg-Eppendorf, Hamburg, DEU.

Conference proceedings (last 5 years)

- 2020 **de Gee JW**, Tsetsos K, McCormick DA, Donner TH & McGinley MJ. Phasic arousal suppresses suboptimal auditory decision biases in mice and humans. *Association for Research in Otolaryngology MidWinter Meeting*.
- 2020 Mridha Z, **de Gee JW**, Shi J, Alkashgari R, Williams, J, Suminski A, Ward M, Zhang W & McGinley MJ. Graded control of neuromodulatory brainstate using parametric stimulation of the vagus nerve. *Association for Research in Otolaryngology MidWinter Meeting*.
- 2020 Mridha Z, **de Gee JW**, Shi J, Ramsaywak H, Banta A, Zhang W & McGinley MJ. Neuromodulatory- and prefrontal-sensory cortical interactions underlying motivated shifts in attentional effort. *Association for Research in Otolaryngology MidWinter Meeting*.
- 2019 **de Gee JW**, Tsetsos K, Schwabe L, Urai AE, Bergt A, McCormick DA, Donner TH & McGinley MJ. Phasic arousal suppresses suboptimal decision biases in mice and humans. *Society for Neuroscience*.
- 2019 Mridha Z, **de Gee JW**, Shi J, Alkashgari R, Williams, J, Suminski A, Ward M, Zhang W & McGinley MJ. Graded control of pupil dilation and cortical neuromodulation using selective and parametric stimulation of the vagus nerve. *Society for Neuroscience*.
- 2019 Mridha Z, **de Gee JW**, Shi J, Ramsaywak H, Banta A, Zhang W & McGinley MJ. Neuromodulatory- and prefrontal-sensory cortical interactions underlying motivated shifts in attentional effort. *Society for Neuroscience*.
- 2019 Urai AU, **de Gee JW**, Tsetsos K & Donner TH. Choice history biases subsequent evidence accumulation. *Society for Neuroscience*.
- 2019 van der Brink R, Colizoli O, **de Gee JW**, & Donner TH. Neuromodulatory brainstem activity predicts intrinsic co-fluctuations in cortical activity. *Society for Neuroscience*.

- 2019 Gao S, Banta M, **de Gee JW**, Mridha Z, Zhang W, Kemere C & McGinley MJ. Hippocampal encoding of space during navigation of an acoustically defined virtual environment. *Society for Neuroscience*.
- 2019 **de Gee JW**, Mridha Z, Shi J, Ramsaywak H, Banta A, Zhang W & McGinley MJ. Neural circuits and pupil readouts of motivated shifts in attentional effort. *Symposium on the Biology of Decision-Making*.
- 2019 **de Gee JW**, Tsetsos K, McCormick DA, Donner TH & McGinley MJ. Phasic arousal optimizes auditory evidence accumulation. *Association for Research in Otolaryngology MidWinter Meeting* (talk; travel grant).
- 2019 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 **de Gee JW**, Tsetsos K, McCormick DA, Donner TH & McGinley MJ. Phasic arousal optimizes decision computations in mice and humans. *UTHealth Cooley Center 25th Annual Neuroscience Poster Session*.
- 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*.