

Madelon (van Beek -) Vollebregt

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Contact information

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Summary

Madelon has gained her PhD in Neuropsychology and Cognitive Neuroscience, having conducted both clinical and fundamental research in children with ADHD. Currently, she is working as senior researcher at Research Institute Brainclinics. Here, she conducts psychological and electrophysiological research. She supervises PhD candidates and further explores the established relationship between solar irradiance exposure and attentional problems. In addition, she is secretary of the Board of Directions of the International Pharmacology EEG society.

Education

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| 2016 | PhD in Neuropsychology and Cognitive Neuroscience Radboud University Nijmegen |
| 2012 | Master of Science in Cognitive Neuroscience Radboud University Nijmegen |
| 2010 | Master of Science in (Neuro)psychology Radboud University Nijmegen |
| 2009 | Bachelor of Science in Psychology Radboud University Nijmegen |

Research experience

2016 – current

Senior researcher

Research Institute Brainclinics

2012 – 2015

PhD Candidate

Research group Ole Jensen (neuronal oscillations)

Promotors: Jan Buitelaar, Ole Jensen

Co-promotor: Dorine Slaats-Willemse

Radboud University Nijmegen Medical Centre Donders Institute for Brain, Cognition and Behaviour, Department of Neuropsychiatry, Nijmegen, the Netherlands.

Donders Institute for Brain, Cognition and Behaviour, Centre For Cognitive Neuroimaging, Nijmegen, the Netherlands.

Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, the Netherlands.

2010 – 2012

Research Assistant

Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behaviour, Department of Cognitive Neuroscience, Nijmegen, the Netherlands.

Donders Institute for Brain, Cognition and Behaviour, Centre For Cognitive Neuroimaging, Nijmegen, the Netherlands.

Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, the Netherlands.

Clinical experience*

2010 – 2011

Psychological Assistant

Hospital Gelderse Vallei Ede. Medical psychology

2009 - 2010

Neuropsychologist in training

Hospital Gelderse Vallei Ede. Medical psychology, memory polyclinic

* all research experience is with clinical populations.

Projects / Courses

Board of Directors IPEG

Secretary at the International Pharmacology EEG society since November 2016.

First aid for children

July 2015 I obtained a first aid certificate, specifically for children, renewed June 2017.

Donders Academy

Transfer of knowledge to the public and industry. Organization of the Brain Awareness Week Activities (2013-2015).

University Teaching Qualification

Qualified to teach on academic level.

Good Clinical Practice

In 2013 I obtained a certificate of Good Clinical Practice (certificate not renewed)

Publications

- Vollebregt, M.A.**, Buitelaar, J.K., Franke, B., Arnold L.E., Swanson, J.M., Faraone, S., Loo, S., Grevet, E.H., Reif, A., Ribasés, M., Haavik, J., Kuntsi, J., Asherson, P., Bralten, J., Shumskanga, E., Arns, M. Susceptibility of DRD4 7R Carriers to Seasonal Light Changes on Attentional Performance: A Gene x Environment Investigation. In preparation.
- Vollebregt, M.A.**, Arns, M., Monastra, V., Roley-Roberts, M.E., Arnold, L.E. Hollway, J.A. Shedding light on the etiology of ADHD: The influence of disturbed sleep on symptomatology. *Journal of Child Psychology and Psychiatry*. In preparation.
- Vollebregt, M.A.**, Kenemans, J.L., Buitelaar, J.K., Deboer, T., Cain, S.W., Palmer, D., Elliott, G.R., Gordon, E., Fallahpour, K., Arns, M. Annual variation in attentional improvement after Methylphenidate treatment. *European Child & Adolescent Psychiatry*. In press.
- van der Vinne, N., **Vollebregt, M.A.**, Boutros, N.N., Fallahpour, K., van Putten, M.J.A.M., Arns, M. (2019) Normalization of EEG in depression after antidepressant treatment with sertraline? A preliminary report. *Journal of Affective Disorders*, 259 (2019) 67-72 doi: 10.1016/j.jad.2019.08.016
- Ryan, M., Brown, T., **Vollebregt, M.A.**, & Arns, M. (2019). What's sleep got to do with it? Circadian rhythm sleep disorder, ADHD and neurofeedback. *Asia Pacific Journal of Neurotherapy*, 1(1), 85-98.
- Iseger, T.A., **Vollebregt, M.A.**, Krepel, N., & Arns, M. (2019). Heart rate variability related to season of birth: A replication study. *Psychophysiology*. doi:10.1111/psyp.13419
- Arns, M., & **Vollebregt, M.A.** (2019). Editorial: Time to wake up: Appreciating the role of sleep in attention-deficit/hyperactivity disorder. *Journal of the American Academy of Child & Adolescent Psychiatry*, 58(4), 398-399.
- Gerrits, B., **Vollebregt, M.A.**, Olbrich, S., van Dijk, H., Palmer, D., Gordon, E., Kessels, R.P.C., Arns, M. Probing the 'default network interference hypothesis' with EEG: An RDoC approach focused on attention. *Clinical EEG & Neuroscience*. doi: 10.1177/1550059419864461
- Iseger, T.I., **Vollebregt, M.A.**, Krepel, N., Arns, M. Heart rate variability related to season of birth: A Replication Study. *Psychophysiology*. In revision.

- Bijlenga D., **Vollebregt M.A.**, Kooij J.J., Arns M. The role of the circadian system in the etiology and pathophysiology of ADHD: time to redefine ADHD? Attention Deficit and Hyperactivity Disorders. 2018. doi: 10.1007/s12402-018-0271-z.
- Arns, M., **Vollebregt, M.A.**, Palmer, D., Spooner, C., Gordon, E., Kohn, M., Clarke, S., Elliott, G.R., Buitelaar, J.K. (2018). Electroencephalographic biomarkers as predictors of methylphenidate response in attention-deficit/hyperactivity disorder. *European Neuropsychopharmacology*. 28(8), 881-891.
- Van Doren, J., Arns, M., Heinrich, H., **Vollebregt, M.A.**, Strehl, U., Loo, S.K (2018). Sustained effects of neurofeedback in ADHD: a systematic review and meta-analysis. *European child & adolescent psychiatry*. Epub ahead of print Feb 14 2018.
- van der Vinne, N., **Vollebregt, M.A.**, Boutros, N. N., Fallahpour, K., van Putten, M. J. A. M., & Arns, M. (2019). Normalization of EEG in depression after antidepressant treatment with sertraline? A preliminary report. *Journal of Affective Disorders*, 259, 67-72. doi:10.1016/j.jad.2019.08.016
- van der Vinne, N., **Vollebregt, M.A.**, van Putten, M.J.A.M., Arns, Martijn (2017). Frontal alpha asymmetry as a diagnostic marker in depression: Fact or fiction? A meta-analysis. *Neuroimage: clinical*. 16, 79-87.
- Cerquera, A., **Vollebregt, M.A.**, Arns (2017). Nonlinear Recurrent Dynamics and Long-Term Nonstationarities in EEG Alpha Cortical Activity: Implications for Choosing Adequate Segment Length in Nonlinear EEG Analyses. *Clinical EEG and Neuroscience*.
- Vollebregt, M.A.**, Zumer, J.M., ter Huurne, N., Buitelaar, J.K., Jensen, O. (2016). Posterior alpha oscillations reflect attentional problems in boys with attention deficit hyperactivity disorder. *Clinical Neurophysiology*. 127(5), 2185-2191.
- Vollebregt, M. A.**, Zumer, J. M., ter Huurne, N., Buitelaar, J. K., & Jensen, O. (2015), Lateralized modulation of posterior alpha oscillations in children. *NeuroImage*, 123, 245-252.
- van Dongen-Boomsma, M., **Vollebregt, M.A.**, Slaats-Willemse, D., Buitelaar, J.K. (2015). Effectiviteit van frequentieneurofeedback en Cogmed JM-werkgeheugentraining bij kinderen met ADHD. *Tijdschrift voor Psychiatrie*. 57, 508-516.
- Vollebregt, M.A.**, Van Dongen-Boomsma, M., Slaats-Willemse, D., Buitelaar, J.K.***, Oostenveld, R.** (2015). How the individual alpha peak frequency helps to unravel the neurophysiologic

underpinnings of behavioral functioning in children with Attention-Deficit/Hyperactivity Disorder. *Clinical EEG & Neuroscience*.

Vollebregt, M.A.*, van Dongen-Boomsma*, M., Buitelaar, J.K. Slaats-Willemse, D. (2014). EEG-neurofeedback bij kinderen met ADHD; gebrek aan overtuigend bewijs? *Tijdschrift voor Neuropsychologie*, 9(3), 195-206.

Vollebregt, M.A.*, Van Dongen-Boomsma, M.*, Slaats-Willemse, D., Buitelaar, J.K. (2014). What future research should bring to help resolving the debate about the efficacy of EEG-neurofeedback in children with ADHD. *Frontiers Human Neuroscience*. 15;8;321. DOI: 10.3389/fnhum.2014.00321

Van Dongen-Boomsma M., **Vollebregt M.A.**, Slaats-Willemse D., Buitelaar J.K. (2014). Dr. van Dongen-Boomsma replies. *Journal of Clinical Psychiatry*, 75(7), 779. DOI:10.4088/JCP.14lr09043a

Van Dongen-Boomsma, M,* **Vollebregt, M.A.***, Buitelaar, J.K.** , & Slaats-Willemse, D.** (2014). Working memory training in young children with ADHD: a randomized placebo-controlled trial. *Journal of Child Psychology and Psychiatry*, 55(8), 886-896. DOI: 10.1111/jcpp.12218.

Van Dongen-Boomsma M., **Vollebregt M.A.**, Slaats-Willemse D., Buitelaar J.K. (2014). Dr. van Dongen-Boomsma and colleagues reply. *Journal of Clinical Psychiatry*, 75(3), 290. DOI:10.4088/JCP.13lr08850a

Vollebregt, M.A.*, van Dongen-Boomsma*, M., Buitelaar, J.K. Slaats-Willemse, D. (2013). Does EEG-neurofeedback improve neurocognitive functioning in children with Attention-Deficit/Hyperactivity Disorder? A systematic review and a double-blind placebo-controlled study. *Journal of Clinical Psychology and Psychiatry*. 55(5), 460-472.

Van Dongen-Boomsma M., **Vollebregt M.A.**, Slaats-Willemse D.** , Buitelaar J.K.** (2013). A Randomized Placebo-Controlled Trial of Electroencephalographic (EEG) Neurofeedback in Children with Attention-Deficit/Hyperactivity Disorder. *Journal of Clinical Psychiatry*, 74(8), 821-827.

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