

# Do Tromp

## Graduate Student

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### Information

Office Address: 6001 Research Park Boulevard, Madison, WI, USA  
Date of birth: June 3<sup>rd</sup> 1983  
Place of birth: Amersfoort, The Netherlands.  
E-mail: [do.tromp@gmail.com](mailto:do.tromp@gmail.com)  
Website: [www.bi.wisc.edu/~tromp](http://www.bi.wisc.edu/~tromp) & [www.diffusion-imaging.com](http://www.diffusion-imaging.com)

### Education

2013 – current PhD, Neuroscience Training Program, University of Wisconsin, USA.  
2007 – 2010 MSc, Neuroscience & Cognition, Utrecht University, The Netherlands (Cum Laude).  
2002 – 2007 BSc, Psychology, Majored in Cognitive Neuroscience & Science and Innovation Management, Utrecht University, The Netherlands.  
2001 – 2002 AS-levels in psychology, computing and English, Canterbury College, UK.  
1995 – 2001 VWO high school, Montessori Lyceum Herman Jordan, The Netherlands.

### Awards

Society of Biological Psychiatry - Travel Fellowship Award (2015)  
Society of Biological Psychiatry - Top Poster finalist (2013, 2014, 2015; won in 2014)  
Foundation of Renswoude - Travel Award (2009)  
KF Hein - Travel Award (2009)  
Hendrik Muller Foundation - Travel Award (2009)

### Publications

Travers, B.G., Bigler, E.D., **Tromp, D.P.M.**, Adluru, N., Destiche, D., Samsin, D., Froehlich, A.L., Prigge, M.B.D., Duffield, T., Lange, N., Alexander, A.L., Lainhart, J.E. (2015). *Brainstem White Matter Predicts Individual Differences in Manual Motor Difficulties and Symptom Severity in Autism*. Journal of Autism and Developmental Disorders.

Fox, A.S., Oler, J.A., **Tromp, D.P.M.**, Fudge, J., & Kalin, N.H. (2015). *Extending the amygdala in theories of threat processing*. Trends in Neurosciences.

Kennis, M., van Rooij, S.J.H., **Tromp, D.P.M.**, Fox, A.S., Rademaker, A.R., Kahn, R.S., Kalin, N.H., Geuze E. (2015). *Treatment outcome-related white matter differences in veterans with Posttraumatic Stress Disorder*. Neuropsychopharmacology.

Travers, B.G., **Tromp, D.P.M.**, Adluru, N., Lange, N., Destiche, D., Ennis, C., ... Alexander, A.L. (2015). *Atypical development of white matter microstructure of the corpus callosum in males with autism: a longitudinal investigation*. Molecular Autism, 6.

Zakszewski, E., Adluru, N., **Tromp, D.P.M.**, Kalin, N., Alexander, A.L. (2014). *A Diffusion-Tensor-Based White Matter Atlas for Rhesus Macaques*. PloS one.

Emborg, M.E., Hurley, S.A., Joers, V., **Tromp, D.P.M.**, Swanson, C.R., Ohshima-Hosoyama, S., Bondarenko, V., Cummisford, K., Sonnemans, M., Hermening, S., Blits, B., Alexander, A.L. (2013). *Titer and product affect the distribution of gene expression after intraputamina convection-enhanced delivery*. Stereotactic and Functional Neurosurgery.

Travers, B.G., Bigler, E.D., **Tromp, D.P.M.**, Adluru, N., Froehlich, A.L., Ennis, C., Lange, N., Nielsen, J.A., Prigge, M.B.D., Alexander, A.L., Lainhart, J.E. (2014). *Longitudinal processing speed impairments in males with autism and the effects of white matter microstructure*. Neuropsychologia.

Kaan, E., Overfelt, C., **Tromp, D.P.M.**, Wijnen, F. (2013). *Processing Gapped Verbs*. Journal of Psycholinguistic Research.

Travers, B.G., Adluru, N., Ennis, C., **Tromp, D.P.M.**, Destiche, D., Doran, S., Bigler, E.D., Lange, N., Lainhart, J.E., Alexander, A.L. (2012). *Diffusion tensor imaging in autism spectrum disorder: a review*. Autism Research.

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- Tromp, D.P.M.\***, Grupe, D.W.\*, Oathes, D.J., McFarlin, D.R., Hernandez, P.J., Kral, T.R.A., Lee, J.E., Adams, M., Alexander, A.L., Nitschke, J.B. (2012). *Reduced structural connectivity of a major frontolimbic pathway in generalized anxiety disorder*. Archives of General Psychiatry. \*authors contributed equally to the work.
- Alexander, A.L., Hurley, S.A., Samsonov, A.A., Adluru, N., Hosseinbor, A.P., Mossahebi, P., **Tromp, D.P.M.**, Zakszewski, E., Field, A.S., (2012). *Characterization of Cerebral White Matter Properties Using Quantitative MRI Stains*. Brain Connectivity.
- Adluru, N., Zhang, H., Fox, A.S., Shelton, S.E., Ennis, C.M., Bartosic, A.M., Oler, J.A., **Tromp, D.P.M.**, Zakszewski, E., Gee, J.C., Kalin, N., Alexander, A.L. (2011). *A diffusion tensor brain template for Rhesus Macaques*. NeuroImage.

## Works in Progress

- Oler, J.A., **Tromp, D.P.M.**, Fox, A.S., Fudge, J., & Kalin, N.H. (Under Review). *Visualizing the primate central extended amygdala with neuroimaging and neuronal tracing studies*.
- Shackman, J.A., **Tromp, D.P.M.**, Stockbridge, M.D., Kaplan, C.M., Tillman, R.M., Fox, AS (Under Review). *Linking dispositional negativity to momentary emotional experience and behavior: An integrative psychological and neurobiological perspective*.
- Lapate, RC, Rokers, B, **Tromp, DPM**, Orfali, NS, Oler, JA, Doran, ST, Adluru, N, Alexander, AL, Davidson RJ (Under Review). *Awareness of Emotional Stimuli Determines the Behavioral Consequences of Amygdala Activation and Amygdala-Prefrontal Connectivity*.
- Kalin, NH, Fox, AS, Kovner, R, Riedel, MK, Fekete, EM, Roseboom, PH, **Tromp, DPM**, Grabow, BP, Olsen, ME, Brodsky, EK, Alexander, AL, Emborg, ME, Block, WF, Fudge, JL, Oler, JA (Under Review). *Overexpressing corticotrophin releasing hormone (CRH) in primate amygdala increases anxious temperament and alters its neural circuit*.

## Posters & Presentations

- Tromp, D.P.M., Williams, L.E., Fox, A.S., Oler, J.A., Rogers, G.M., Pine, D.S., Alexander, A.L., Kalin, N.H. (2015). *White Matter Alterations in Pre-Adolescent Children with Anxiety Disorders*. Society of Biological Psychiatry (**Top Poster finalist**).
- Tromp, D.P.M., Fox, A.S., Oler, J.A., Grabow, B., Olsen, M., Brodsky, E.K., Kovner, R., Riedel, M., Fekete, E., Birn, R., Roseboom, P.H., Alexander, A.L., Emborg, M.E., Block, W., Kalin, N.H. (2014). *Distal microstructural alterations resulting from CRH overexpression in the central nucleus of the amygdala of non-human primates*. Society for Neuroscience.
- Tromp, D.P.M., Fox, A.S., Oler, J.A., Roseboom, P.H., Alexander, A.L., Kalin, N.H. (2014). *Early life adversity leads to aberrant structural development of amygdaloprefrontal network in nonhuman primates*, Society of Biological Psychiatry (**Top Poster Award**).
- Tromp, D.P.M., Williams, L.E., Oler, J.A., McFarlin, D.R., Fox, A.S., Pine, D.S., Kalin, N.H. (2014). *Prefrontal-Amygdala Circuitry is Altered in Pre-Adolescent Children with Anxiety Disorders*, Anxiety and Depression Association of America (**Oral presentation**).
- Tromp, D.P.M., Fox, A.S., Destiche, D., Lu, S., Burghy, C.A., Armstrong, J.M., Ruttle, P.L.m Davidson, R.J., Slattery, M.J., Alexander, A.L., Essex, M.J., Kalin, N.H. (2013). *White-matter integrity in the anterior parahippocampal cingulum predicts reactive cortisol in response to an acute psychosocial stressor*, International Society for Psychoneuroendocrinology (**Oral presentation**).
- Tromp, D.P.M., Fox, A.S., Oler, J.A., Shelton, S.E., Rogers, J., Blangero, J., Adluru, N., Alexander, A.L., Davidson, R.J., Kalin, N.H. (2013). *Anxious Temperament in 534 Young Rhesus Monkeys Predicts Increased Integrity of a Significantly Heritable Region Within the Internal Capsule*, Society of Biological Psychiatry (**Top Poster finalist**).
- Tromp, D.P.M., Oler, J.A., Fox, A.S., Shackman, A., Davidson, R.J., Birn, R., Alexander, A.L., Kalin, N.H. (2012). *Structural and Functional Connectivity of the Extended Amygdala in Newborn Monkeys*, Society for Neuroscience (**Oral presentation**).
- Tromp, D.P.M., Fox, A.S., Oler, J.A., Adluru, N., Davidson, R.J., Alexander, A.L., Kalin, N.H. (2012). *Cortisol Predicts Increased Internal Capsule Integrity in a Large Sample of Non-Human Primates*, International Society for Psychoneuroendocrinology.

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- Tromp, D.P.M., Emborg, M.E., Hurley, S.A., Adluru, N., Brady, M., Raghavan, R., Kubota, K., Alexander, A.L. (2012). *Statistical atlasing of MR-guided infusions*, Society for Brain Mapping & Therapeutics.
- Tromp, D.P.M., Emborg, M.E., Hurley, S.A., Adluru, N., Brady, M., Raghavan, R., Kubota, K., Alexander, A.L. (2012). *Retrospective R1 Atlas Mapping of Brain Infusions*, International Society for Magnetic Resonance in Medicine.
- Tromp, D.P.M., Adluru, N., Alexander, A.L., Emborg, E.M. (2011). *Simulating Convection-Enhanced Delivery In The Putamen Using Probabilistic Tractography*, IEEE International Symposium on Biomedical Imaging.
- Tromp, D.P.M., Bos, P., Terburg, P., van Vugt, M., van Honk, J. (2008). *The Effect of Testosterone on Social Cooperation*, International Society for Psychoneuroendocrinology.

## Ad hoc reviewer

BMC Psychiatry, Brain Connectivity, Brain Structure and Function, Human Brain Mapping, Journal of Affective Disorders, NeuroImage, Psychoneuroendocrinology, Scientific Reports

## Research Experience

- 2013-current **Graduate Student** in the laboratory of Dr. Ned Kalin, Chair of the UW Psychiatry Department, University of Wisconsin, Madison, USA.  
*Research:* Investigate the role of white matter in the development of maladaptive anxiety in children with anxiety disorders and translational models of anxiety in non-human primates.
- 2010-2013 **Research Specialist** at the laboratory of Dr. Andrew L. Alexander, Director of MR imaging at the Waisman Laboratory for Brain Imaging and Behavior, University of Wisconsin, Madison, USA.  
*Research:* Specialized in processing of MRI data in human and non-human primates. Main tasks include pipeline development, image analysis, writing of research papers and student supervision.
- 2010 **Masters Thesis** project with Dr. René Mandl, at the Neuroimaging Research Group, University Medical Center, Utrecht, The Netherlands.  
*Research:* Review article on current developments of white matter connectivity research in schizophrenia; a study into voxel based versus track based DTI methodology.
- 2009 **Masters Research Internship** at the laboratory of Dr. Jack Nitschke, Waisman Laboratory for Brain Imaging and Behavior, University of Wisconsin, Madison, USA.  
*Research:* Investigated prefrontal regulation of the amygdala fear response in Generalized Anxiety Disorder. Main tasks included DTI processing and analysis, diffusion tensor tractography, white matter pathway delineation, writing of research paper.
- 2008 **Masters Research Internship** at the laboratory of Dr. Jack van Honk, department of Experimental Psychology, Utrecht University, The Netherlands.  
*Research:* Investigated the effects of testosterone on social and emotional behavior and brain activity. Main tasks included participant recruitment, screening and scheduling, behavioral, eye-tracking and digit ratio data collection, testosterone and cortisol administration, task development, student supervision, writing of research paper.
- 2007 **Bachelors Research Internship** with Dr. Frank Wijnen at the department of Experimental Psychology and Utrecht Institute of Linguistics, Utrecht University, The Netherlands.  
*Research:* Investigating word gapping in the brain. Main tasks included participant recruitment, screening and scheduling, task development, EEG data collection and analysis, writing of research paper.

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- 2006            **Summer Internship** with Dr. Joke Baas at the department of Experimental Psychology, Utrecht University, The Netherlands.  
*Research:* Investigate the effects of d-cycloserine and THC on fear extinction. Main tasks included analysis of the skin conductance data, computer entry of the questionnaires and assisting in recruitment and testing of the participants.

## Teaching Experience

- 2015            **Teaching Assistant & Guest Lecturer** - Methods for Neuroimaging Research (with Drs Alexander & Birn) at University of Wisconsin - Madison, USA.
- 2014            **Guest Lecturer** - Introduction in diffusion imaging (with Dr Spector) at Edgewood College, USA.
- 2014            **Guest Lecturer** - Anxious temperament and its neural substrates: A translational and multimodal imaging approach (for Conte Center) at University of Wisconsin - Madison, USA.
- 2013            **Guest Lecturer** - Diffusion Tensor Imaging processing at Waisman Center, University of Wisconsin - Madison, USA.

## Extracurricular Activities

- 2015            **Upstart** Competitive Program for Minority and Women's Entrepreneurship, Wisconsin Alumni Research Foundation, USA.
- 2009 – current   **Founder of & Writer** for [www.diffusion-imaging.com](http://www.diffusion-imaging.com), technical source for diffusion tensor imaging (DTI) tutorials, how-to's, software, analyzing methods, and discussion board, with over 200000 visitors.
- 2008            **Founder & Editorial board**, [Journal of Neuroscience and Cognition](http://Journal of Neuroscience and Cognition), Utrecht University, The Netherlands.
- 2007            **Neuroscience Summer School** at Erasmus University Rotterdam, The Netherlands.
- 2006 – 2007     **Commissioner** for the student union of Neuropsychology, Utrecht University, The Netherlands.
- 2003 – 2004     **Treasurer** for the introductions committee of Science and Innovation Management student union, Utrecht University, The Netherlands.
- 2000 – 2001     **Commissioner** for the yearbook of the class of 2001, Montessori Lyceum Herman Jordan, The Netherlands.