



Do Tromp

Brains & Tech

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Profile

Do grew up and went to college in the Netherlands, where she received degrees in psychology and neuroscience. She is currently a neuroscience graduate student in the United States studying the neural substrates that underlie normal and abnormal brain functioning. She uses state of the art imaging methods, like magnetic resonance imaging (MRI) and diffusion tensor imaging (DTI) in order to investigate the connectivity that underlies affective processing in the brain. In addition she is interested in the intersection between tech and health, and wants to develop novel tools to investigate and forecast healthy behaviors.

Education

Now — PhD, Neuroscience; University of Wisconsin, USA
2010 — MSc, Neuroscience & Cognition; Utrecht University, The Netherlands
2007 — BSc, Psychology; Utrecht University, The Netherlands
2004 — Science Innovation Management; Utrecht University, The Netherlands
2002 — A-levels; Canterbury College, United Kingdom
2001 — VWO; Montessori Lyceum, The Netherlands

Skills

Data analysis, statistics, scientific writing, project management, public speaking, data visualization, programming, hardware development, teaching, neuroscience, magnetic resonance imaging, diffusion tensor imaging.

Experience

Graduate Student; University of Wisconsin, USA — 2013-Present

As graduate student in the laboratory of Dr. Ned Kalin, Chair of the UW Psychiatry Department, I investigate the role of white matter in the development of maladaptive anxiety in children with anxiety disorders and investigate translational models of anxiety in non-human primates.

Founder; diffusion-imaging.com, USA — 2009-Present

Leading source of diffusion imaging knowledge. Providing background on the tools, methods and software to effectively analyze DTI data since 2009. Posts include step-by-step processing and tractography tutorials. Currently with over 240k views.

Upstart; WARF, USA — 2015

Competitive program for minority and women's entrepreneurship, organized by the Wisconsin Alumni Research Foundation to equip entrepreneurially minded women and minorities with the tools needed to launch or expand any business venture.

Research Specialist; University of Wisconsin, USA — 2010-2013

In the laboratory of Dr. Andrew Alexander, Director of MR imaging at the Waisman Laboratory for Brain Imaging and Behavior I 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.

Research Internships; Utrecht University/University Medical Center/University of Wisconsin, The Netherlands/USA — 2006-2010

In the laboratories of Drs. Joke Baas, Frank Wijnen, Jack van Honk, Jack Nitschke and René Mandl I served consecutive internships, with roles that included data analysis, task development, supervision and scientific writing.

Selected Publications

Tromp, D.P.M. (Under Review). *A Survey of Technologies for Brain Computer Interface Developments to Treat Neuropsychiatric Disorders*. The Winnower.

Oler, J.A.*, **Tromp, D.P.M.***, Fox, A.S., Kalin, N.H. & Fudge, J. (2016). *Visualizing the primate central extended amygdala with neuroimaging and neuronal tracing studies*. Brain Structure and Function.

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.

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.

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. Full overview available on [Google Scholar](#).

References

Available upon request
