

Tim Ziermans

Personal Details

Birth date 28 December 1979
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Education

2010 Doctoral degree (PhD) in Neuroscience
Utrecht University, University Medical Center Utrecht, Rudolf Magnus
Institute of Neuroscience, Utrecht, the Netherlands

2004 Master's degree (MSc) with honours, Clinical Psychology with
specialization in Neuropsychology
University of Amsterdam (UvA), Department of Psychology,
Amsterdam, the Netherlands

1998 VWO diploma (Dutch equivalent to A-levels) in: economics, economics
II (accountancy), mathematics, history, geography, English, Dutch
Prins Willem Alexander College, Leerdam, the Netherlands

Employment

2012 – present Assistant professor, Leiden University, Dept. of Clinical Child and
Adolescent Studies, Leiden, the Netherlands

2010 – 2013 Postdoctoral research fellow, Karolinska Insitutet, Dept. of
Neuroscience, Stockholm, Sweden

2010 – 2013 Freelance editor/translator, ProPhase Ltd., New York, USA

2005 – 2010 PhD candidate, Dept. of Child & Adolescent Psychiatry, University
Medical Center (UMC) Utrecht, Utrecht, the Netherlands

2004 – 2005 Research assistant in pediatric neuroimaging, Dept. of Child &
Adolescent Psychiatry, University Medical Center (UMC) Utrecht,
Utrecht, the Netherlands

- 2003 – 2005 Supervising children with psychiatric disorders, *Zonnehuizen Veldheim Stenia*, Zeist, the Netherlands
- 2002 – 2003 Research assistant clinical psychology, Dept. of Psychology, University of Amsterdam (UVA), Amsterdam, the Netherlands
- 2001 – 2002 Nurse assistant, Dept. of Neurology, VU University Amsterdam Medical Center (VUMC), Amsterdam, the Netherlands

Research experience

- 2012 Dec – present Assistant professor, Leiden University
Dept. of Clinical Child & Adolescent Studies, Leiden University
Projects: I.e. Psychotic symptom development, Curious Minds (www.talentenkracht.nl), Stumass (assisted living for students with autism spectrum disorder; www.stumass.nl)
- 2010 Apr – 2013 Jul Postdoctoral research fellow, Karolinska Institutet
Developmental Cognitive Neuroscience lab, Dept. of Neuroscience, Karolinska Institutet
Title: Working memory and risk for psychopathology
Supervisor: Prof. T. Klingberg
- 2005 May – 2010 Apr Graduate student, PhD in Neuroscience, Utrecht University
Neuroimaging lab, Dept. of Child & Adolescent Psychiatry, University Medical Center Utrecht
Title: *In transition: A longitudinal exploration of the adolescent brain at risk for psychosis*
Supervisors: Prof. H van Engeland, Prof. C. Kemner, Prof. S. Durston and Dr. P. F. Schothorst
- 2004 Sep – 2005 Apr Research assistant, University Medical Center Utrecht
Neuroimaging lab, Dept. of Child & Adolescent Psychiatry, University Medical Center Utrecht
Projects: 1. Structural MRI: Children with ADHD versus healthy controls and 2. Genetic risk for Attention Deficit Hyperactivity Disorder expressed in brain functioning
Supervisor: Prof. S. Durston
- 2003 Sep – 2004 Jun Internship, M.Sc. in Psychology, University of Amsterdam
Dept. of Child & Adolescent Psychiatry, University Medical Center Utrecht
Title: Facial emotion recognition and social functioning in men with Klinefelter Syndrome
Supervisors: Prof. J.T. Swaab, Prof. H.M. Geurts
- 2002 – 2003 Research assistant, University of Amsterdam
Dept. of Psychology, University of Amsterdam
Title: Acute stress, trait anxiety and the perception of heart-related symptoms in patients with congenital heart disease
Supervisor: Dr. P.A. Karsdorp

Scholarships and prizes

- 2016 August Brain & Behavior Foundation - NARSAD Young Investigator Grant (\$70.000)
- 2015 January Young Investigator Award (\$1500) for attendance of the 15th International Congress on Schizophrenia Research in Colorado Springs, USA
- 2012 January Travel award (\$100) for poster presentation at the 12th International Imaging Genetics Conference hosted by the University of California at Irvine, USA
- 2011 August Travel award (€500) to attend a workshop in Granada, Spain: "The developing brain: perspectives from typical and atypical development"
- 2011 Jun Swedish Research Council *konferensbidrag* (appr. €8,800) for the organization of a 2-day symposium "Boosting the brain: Neuroplasticity and cognition across the lifespan"
- 2011 May Swedish Council for Working Life and Social Research (FAS), Marie Curie Incoming International Postdoc Fellowship (appr. €210,000)
- 2011 Feb Karolinska Institutet Neuroscience, research network grant (appr. €22,000) for the organization of a 2-day symposium "Boosting the brain: Neuroplasticity and cognition across the lifespan"
- 2009 Mar Travel award (appr. €2,500,-) from Utrecht University, for a work visit to the Imaging Research Center, UC Davis, Sacramento, USA
- 2006 Aug Rudolf Magnus Institute of Neuroscience, 'Discussion Award' (€200) at the annual RMI Summer School
- 2006 Jun Selected for sponsored attendance of the John Merck Foundation Summer Institute on developmental disabilities, 2006, Princeton, USA (\$300)

Teaching

At Leiden University I currently coordinate and co-teach the 'Clinical assessment & treatment: Neuroscience' course; I provide lectures for the 'Methods in cognitive affective neuroscience' and 'Developmental Clinical Neuroscience' courses. I also supervise thesis projects for two PhD candidates and c. 30 graduate & undergraduate students per year. In 2013-2014 I have supervised a workgroup of c. 20 students for the 'Practice of empirical research' course. In May 2015 I obtained the University Teaching Qualification ("Basis Kwalificatie Onderwijs") certificate. Since September 2015 I am a staff-member of the educational board of Education and Child Studies.

Selection of postgraduate coursework

- 2005 RMI/ONWA Introduction to Neuroscience, Utrecht/Amsterdam
- 2006 Autism Diagnostic Interview training, UMC Utrecht, Utrecht
- 2007 Introduction to biostatistics for researchers, Utrecht University, Utrecht
- 2007 Functional brain anatomy & brain imaging, Free University (VU), Amsterdam
- 2007 Longitudinal data & repeated measures, Utrecht University, Utrecht
- 2008 Grant writing course, Free University (VU), Amsterdam
- 2011 Statistical Parametric Mapping – Introduction course, Zurich University, Switzerland
- 2011 Workshop multivariate pattern classification, Karolinska Institutet, Sweden
- 2013 Matlab Fundamentals, Mathworks, Stockholm, Sweden
- 2014 Thesis supervision, ICLON, Leiden
- 2015 Impact Horizon2020, Leiden

Publications

1. de Wit S, **Ziermans TB**, Nieuwenhuis M, Schothorst PF, van Engeland, Kahn RS, Durston S, Schnack HG (2016). Individual prediction of long-term outcome in adolescents at ultra-high risk for psychosis: Applying machine learning techniques to brain imaging data. *Hum Brain Mapp*, DOI: 10.1002/hbm.23410.
2. de Wit S, Wierenga LM, Oranje B, **Ziermans TB**, Schothorst PF, van Engeland, Kahn RS, Durston S. Brain development in adolescents at ultra-high risk for psychosis: Longitudinal changes related to resilience (2016). *Neuroimage Clin*, 12:542-549.
3. Dijkhuis RR, **Ziermans TB**, van Rijn S, Staal W, Swaab H (2016). Self-regulation and quality of life in high- functioning young adults with autism. *Autism*, in press
4. Dekker MC, **Ziermans TB**, Swaab H. The impact of behavioural executive functioning and intelligence on math abilities in children with intellectual disabilities. *J Intellect Disabil Res*, DOI:10.1111/jir.12276.
5. Therman S, **Ziermans TB** (2016). Confirmatory factor analysis of psychotic-like experiences in a general population sample. *Psychiatry Res*, 235:197-9.
6. Fusar-Poli P, Cappucciati M, Borgwardt S, Woods SW, Addington J, Nelson B, Nieman DH, Stahl D, Bonoldi I, Rutigliano G, Riecher-Rössler A, Simon AE, Mizuno M, Lee TY, Kwon JS, Lam M, Perez J, Keri S, Amminger GP, Metzler S, Kawohl W, Rössler W, Lee J, Labad J, **Ziermans T**, An SK, Liu CC, Woodberry KA, Braham A, Corcoran CM, McGorry P, Yung AR, McGuire P (2016). Heterogeneity of risk for psychosis within subjects at clinical high risk: meta-analytical stratification. *JAMA Psychiatry*, 73(2):113-20.
7. van Rijn S, Kroonenberg P, **Ziermans T**, Swaab H (2015). The dimensional structure of the Schizotypal Personality Questionnaire adapted for children (SPQ-C-D): an evaluation in the Dutch population and a comparison to adult populations. *Advances in Psychiatry*, vol. 2015, Article ID 938784, 8 pages, 2015. doi:10.1155/2015/938784.
8. **Ziermans T**, de Wit S, Schothorst P, Sprong M, van Engeland H, Kahn R, Durston S (2014). Neurocognitive and clinical predictors of long-term outcome in adolescents at ultra-high risk for psychosis: A 6-year follow-up. *PLoS ONE* 9(4):0093994, doi:10.1371/journal.pone.0093994.
9. de Wit, Schothorst PF, Oranje B, **Ziermans TB**, Durston S, Kahn RS (2014). Adolescents at ultra-high risk for psychosis: Long-term outcome of individuals who recover from their at-risk state. *Eur Neuropsychopharmacol*, 24(6):865-73. doi: 10.1016/j.euroneuro.2014.02.008.
10. **Ziermans TB** (2013). Working memory capacity and psychotic-like experiences in a general population sample of adolescents and young adults. *Front Psychiatry*, 4:161, doi: 10.3389/fpsy.2013.00161.
11. Velthorst E, Derks EM, Schothorst P, Becker H, Durston S, **Ziermans T**, Nieman DH, de Haan L (2013). Quantitative and qualitative symptomatic differences in individuals

at Ultra- High Risk for psychosis and healthy controls. *Psychiatry Res*, 210(2):432-7. doi: 10.1016/j.psychres.2013.07.018.

12. **Ziermans T**, Dumontheil I, Roggeman C, Peyrard-Janvid M, Matsson H, Kere J, Klingberg T (2012). Working memory brain activity and capacity link MAOA polymorphism to aggressive behavior during development. *Transl Psychiatry*, 2, e85, doi:10.1038/tp.2012.7.
13. **Ziermans TB**, Schothorst PF, Sprong M, Magnée MJCM, van Engeland H, Kemner C. Reduced prepulse inhibition as an early vulnerability marker of the psychosis prodrome in adolescence (2012). *Schizophr Res*, 134(1), 10-15 .
14. Dumontheil I, Roggeman C, **Ziermans T**, Peyrard-Janvid M, Matsson H, Kere J, Klingberg T (2011). Influence of the COMT genotype on working memory and brain activity changes during development. *Biol Psychiatry*, 70(3):222-229.
15. **Ziermans TB**, Schothorst PF, Magnée MJ, van Engeland H, Kemner C (2011). Reduced prepulse in adolescents at risk for psychosis: A 2-year follow-up study, *J Psychiatry Neurosci*, 36(2):127-134.
16. **Ziermans TB**, Schothorst PF, Sprong M, van Engeland H (2011). Transition and remission in adolescents at ultra-high risk for psychosis. *Schizophr Res*, 126(1-3):58-64.
17. Van Rijn S, Aleman A, Sonnevile L, Sprong M, **Ziermans T**, Schothorst P, van Engeland H, Swaab H (2011). Neuroendocrine markers of high risk for psychosis: Salivary testosterone in adolescent boys with prodromal symptoms. *Psychol Med*, 41(9):1815-1822.
18. Van Rijn S, Schothorst P, Wout MV, Sprong M, **Ziermans T**, van Engeland H, Aleman A, Swaab H (2011). Affective dysfunctions in adolescents at risk for psychosis: Emotion awareness and social functioning. *Psychiatry Res*, 187(1-2):100-105.
19. **Ziermans TB**, Schothorst PF, Schnack HG, Koolschijn PCMP, Kahn RS, van Engeland H, Durston S (2010). Progressive structural brain changes during development of psychosis. *Schizophr Bull*, doi: 10.1093/schbul/sbq113.
20. Van Rijn S, Aleman A, Sonnevile L, Sprong M, **Ziermans T**, Schothorst P, van Engeland H, Swaab H (2010). Misattribution of facial expressions of emotion in adolescents at increased risk of psychosis: the role of inhibitory control. *Psychol Med*, 27, 1-10.
21. **Ziermans TB**, Durston S, Sprong M, Nederveen H, van Haren NE, Schnack H, Lahuis BE, Schothorst, PF, van Engeland H (2009). No evidence for structural brain changes in young adolescents at risk for psychosis. *Schizophr Res*, 112(1-3):1-6.
22. Sprong M, Becker HE, Schothorst PF, Swaab H, **Ziermans TB**, Dingemans PM, Linszen D, van Engeland, H. (2008). Pathways to psychosis: a comparison of the pervasive developmental disorder subtype Multiple Complex Developmental Disorder and the "At Risk Mental State". *Schizophr Res*, 99(1-3):38-47.

23. Durston S, Fossella JA, Mulder MJ, Casey BJ, **Ziermans TB**, Vessaz MN, van Engeland H: Dopamine-transporter genotype interacts with familial risk for Attention-Deficit/Hyperactivity Disorder and striatal activity (2008). *J Am Acad Child Adolesc Psychiatry*, 47(1), 61-67.
24. Durston S, Mulder M, Casey BJ, **Ziermans T**, van Engeland H (2006): Activation in Ventral Prefrontal Cortex is Sensitive to Genetic Vulnerability for Attention-Deficit Hyperactivity Disorder. *Biol Psychiatry*, 60(10):1062-1070.