

# LIZANNE SCHWEREN

NEUROSCIENTIST



28 Dec 1986, the Netherlands



Groningen, the Netherlands



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## EXPERTISE



- Structural and functional MRI
- Adolescent brain development
- Child- & adolescent psychiatry
- ADHD & stimulant treatment
- Adolescent depression

## SKILLS



- MRI analyses in Freesurfer, FSL
  - Scripting in R, Matlab, bash
- Teaching & non-formal education
- Scientific and creative writing



## EXPERIENCE

CURRENT	<b>POSTDOCTORAL RESEARCH ASSOCIATE</b> <i>Department of Psychiatry</i> <i>University Medical Center Groningen, the Netherlands</i>
2016-2017	<b>POSTDOCTORAL RESEARCH ASSOCIATE</b> <i>Department of Psychiatry, Developmental Psychiatry</i> <i>University of Cambridge, United Kingdom</i>
2015-2016	<b>VISITING GRADUATE STUDENT</b> <i>Department of Psychiatry</i> <i>University of California, San Diego, USA</i>
2015	<b>LEAD ORGANISER</b> ESCAP Research Academy, Madrid
2012-2016	<b>GRADUATE STUDENT</b> <i>Department of Psychiatry</i> <i>University Medical Center Groningen, the Netherlands</i>
2011-2012	<b>RESEARCH ASSISTANT</b> <i>Department of Child and Adolescent Psychiatry</i> <i>University Medical Center Utrecht, the Netherlands</i>
2010	<b>RESEARCH INTERNSHIP</b> <i>Department of Psychiatry</i> <i>VU Medical Center Amsterdam the Netherlands</i>



## EDUCATION

2012-2016	<b>PHD BEHAVIOURAL AND COGNITIVE NEUROSCIENCE (CUM LAUDE)</b> Graduate School of Medical Sciences <i>Groningen, the Netherlands.</i>
2008-2010	<b>RESEARCH MASTER NEUROSCIENCE (CUM LAUDE)</b> Developmental and preclinical neuroscience tracts <i>VU University Amsterdam, the Netherlands</i>
2004-2007	<b>BACHELOR PSYCHOLOGY</b> Neuro- and rehabilitation psychology and developmental psychology tracts <i>Radboud University Nijmegen, the Netherlands</i>



## INVITED ORAL PRESENTATIONS (SCIENTIFIC AUDIENCES)

2017	ADHD Netwerk Bijeenkomst (Utrecht)
2016	Eunethydis (Berlin) Stimulants and the Developing Brain (Groningen)
2015	ESCAP Research Academy (Madrid) ESCAP International Conference (Madrid)
2014	Voorjaarssymposium NVVP (Maastricht) Junior scientist workshop ECNP (Nice) ECNP (Berlin) Donders Discussions (Nijmegen)
2013	Goed Gebruik Geneesmiddelen ZonMW (Utrecht) Afdelingspodium UMC Utrecht (Utrecht)



## OUTREACH ACTIVITIES (PRACTITIONERS AND LAY AUDIENCES)

2017	ADHD Netwerk Bijeenkomst (Utrecht)
2016	Organised symposium: stimulants and the developing brain (Groningen)
2015	Presentation: Het Puberbrein, stichting <i>Brein in Beeld</i> (Amersfoort) Organised the Research Academy (Madrid) Presentation: Body and Mind Symposium (PPO, Groningen) Presentation: Refereeravond Accare (Assen)
2014	Event: Volunteer at the Night for Arts and Science (Groningen) Presentation: Het Puberbrein, stichting <i>Brein in Beeld</i> (Haarlem) Presentation: Boerhaave Nascholingsbijeenkomst (Utrecht) National ADHD-day PsyQ (Amersfoort)
2013	Event: Volunteer at the Night for Arts and Science (Groningen)
2012	Event: Volunteer for De Jonge Akademie high school science competition (Winschoten)



## TEACHING & NON-FORMAL EDUCATION

- 2016-2017      Supervisor: Social and developmental psychology  
Supervisor: Development and psychopathology  
Individual supervision of undergraduate and graduate student interns  
*University of Cambridge, Cambridge, UK*
- CURRENT      Volunteer Trainer for AFS Intercultural Exchange Programs  
Volunteer Trainer for the European Federation for Intercultural Learning  
Volunteer Trainer for Youth for Understanding
- 2012-2016      Multiple invited lectures for the Medical School  
Long-term individual supervision of undergraduate and graduate student interns  
Supervisor and Science Coach: 'Sustainable Health Care'  
*University Medical Center Groningen, the Netherlands*



## PUBLICATIONS

- SCHWEREN LJS**, van Borkulo C, Fried EI, & Goodyer I. Assessment of Symptom Network Density as a Prognostic Marker of Treatment Response in Adolescent Depression. *JAMA Psychiatry*, November 2017 (*in press*)
- SCHWEREN LJS**, Hoekstra PJ, van Lieshout M, Oosterlaan J, Rommelse N, Buitelaar JK, Franke B & Hartman CA. Long-term effects of stimulant treatment on ADHD symptoms, social-emotional functioning, and cognition. 2017, *under review*
- SCHWEREN LJS**, Giedd J, Castro N, Bartsch H, Squeglia LM, Meloy MJ, & Tapert S. Memory performance and hippocampus structure after low-frequency recreational stimulant use in adolescents. *Developmental Cognitive Neuroscience*, 2017 (*accepted pending minor revisions*)
- SCHWEREN LJS**, Hartman CA, Heslenfeld DJ, Groenman A, Franke B, Oosterlaan J, et al. Age and *DRD4* genotype moderate associations between stimulant treatment history and cortex structure in ADHD. *Journal of the American Academy of Child and Adolescent Psychiatry*, 55(10), 2016.
- SCHWEREN LJS**, Groenman A, von Rhein D, Weeda W, Faraone SF, Luman M, et al. Stimulant treatment trajectories are associated with neural reward processing in ADHD. *Journal of Clinical Psychiatry*, 78(7), 2017

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## PUBLICATIONS

**SCHWEREN LJS**, Hartman CA, Zwiers MP, Heslenfeld DJ, Franke B, Oosterlaan J, et al. Stimulant treatment history predicts frontal-striatal structural connectivity in adolescents with ADHD. *European Neuropsychopharmacology*, 26(4), 2016.

**SCHWEREN LJS**, Hartman CA, Heslenfeld DJ, van der Meer D, Franke B, Oosterlaan J, et al. Thinner medial temporal cortex in adolescents with ADHD and the effects of stimulants. *Journal of the American Academy of Child and Adolescent Psychiatry*, 54(8), 2015.

**SCHWEREN LJS**, Hartman CA, Zwiers MP, Heslenfeld DJ, van der Meer D, Franke B, Oosterlaan J, et al. Combined stimulant and antipsychotic treatment in adolescents with ADHD: a cross-sectional observational structural MRI study. *European Child and Adolescent Psychiatry*, 24(8), 2015.

**SCHWEREN LJS**, de Zeeuw P & Durston S. MR imaging of the effects of methylphenidate on brain structure and function in ADHD. *European Neuropsychopharmacology*, 23(10), 2013.

**SCHWEREN LJS**, Schrantee A\*. Stimulantia en het zich ontwikkelende brein. PiL – Praktijkgerichte Nascholing over Farmacotherapie in de Eerste Lijn, 7(2), 2017 (*invited review in Dutch*) \* shared first author

**SCHWEREN LJS**. ADHD, lange-termijn medicatiegebruik, en het zich ontwikkelende brein. *Pharmaceutisch Weekblad*, April 2017 (*invited review in Dutch*)

### CO-AUTHORSHIPS

Groenman A, **SCHWEREN LJS**, Dietrich A & Hoekstra PJ. An update on the safety of psychostimulants for the treatment of attention-deficit/hyperactivity disorder. *Expert Opinion on Drug Safety*, 16(4), 2017

Hoogman M, Bralten J, Hibar DP, Mennes M, Zwiers MP, **SCHWEREN LJS**, et al. Subcortical brain volume differences in participants with attention deficit hyperactivity disorder in children and adults: a cross-sectional mega-analysis. *Lancet Psychiatry*, 4(4), 2017

Greven CU, Bralten J, Mennes M, O'Dwyer L, van Hulzen KJ, Rommelse N, **SCHWEREN LJS**, et al. Developmentally stable whole brain volume reductions and developmentally sensitive caudate and putamen volume alterations in those with ADHD and their unaffected siblings. *JAMA Psychiatry*, 72(5), 2015.

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## PUBLICATIONS

Geuijen PM, Buitelaar JK, Fliers EA, Maras A, **SCHWEREN LJS**, Oosterlaan J, et al. The association between ADHD and being overweight is accounted for by genetic and environmental factors also present in non-affected family members. 2017, *Submitted*

Groenman AP, **SCHWEREN LJS**, Weeda W, Luman L, Noordermeer S, Heslenfeld D, et al. Predicting substance use disorders and smoking in ADHD in a longitudinal study: the crucial role of stimulant medication profiles. *Under review*.

Van der Meer, D, Hartman, CA, Zwiers, MP, Mennes, M, **SCHWEREN LJS**, Heslenfeld, DJ, et al. Brain correlates of the interaction between 5-HTTLPR and psychosocial stress mediating attention-deficit/hyperactivity disorder severity. *American Journal of Psychiatry*, 172(8), 2015.

Forde, NJ, Ronan, L, Zwiers, MP, **SCHWEREN LJS**, Alexander-Bloch, AF, Franke, B et al. Healthy cortical development through adolescence and early adulthood. *Brain Structure and Function*, 222(8), 2017

De Wit, SJ, Alonso, P, **SCHWEREN LJS**, Mataix-Cols, D, Lochner, C, Menchón, JM, et al. Multicenter voxel-based morphometry mega-analysis of structural brain scans in obsessive-compulsive disorder. *American Journal of Psychiatry*, 171(3), 2014.

Mudra, S, Völker, U, **SCHWEREN LJS**, Wessing, I & Seitz J. YICAP/ECAP international young investigators paper and grant writing workshop. *European Child and Adolescent Psychiatry*, 24(2), 2015.

Hulst, HE, Schoonheim, MM, Roosendaal, SD, Popescu, V, **SCHWEREN LJS**, van der Werf, YD, et al. Functional adaptive changes within the hippocampal memory system of patients with multiple sclerosis. *Hum Brain Mapping*, 33(10), 2012.

Kong XZ, Mathias SR, Guadalupe T, **ENIGMA LATERALITY WORKING GROUP**, et al. Mapping Cortical Brain Asymmetry in 17,141 Healthy Individuals Worldwide via the ENIGMA consortium. (*submitted*)

Subirà M, Cano M1, de Wit SJ1, Alonso P1, Cardoner N1, ..., **OCD BRAIN IMAGING CONSORTIUM**, et al. Structural covariance of neostriatal and limbic regions in patients with obsessive-compulsive disorder. *Journal of Psychiatry and Neuroscience*, 41(2), 2016.