

Wouter van den Bos, PhD.

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EMPLOYMENT

2013(oct)- Research Scientist
Center for Adaptive Rationality
Max Planck Institute for Human Development
Berlin

2011-2013(oct) Postdoctoral Fellow
Decision Neuroscience Lab
Department of Psychology
Stanford University
Advisor: prof. Samuel M. McClure

EDUCATION

2011 **PhD (*cum laude*)**
Leiden University
Department of Developmental Psychology
Advisors: Prof. Eveline A. Crone (Dev. Psych.), prof. E van Dijk (Social Psych.), & prof. M. Westenberg (Dev. Psych.)
Thesis: The neurocognitive development of social decision-making

2006 **MSc (*cum laude*)**
University of Amsterdam
Department of Psychology & Biological Sciences
Advisors: Prof. R. Ridderinkhoff, prof. J.D. Cohen (Princeton)
Main subject: Cognitive Neuroscience

2004 **MA (*w/honors*)**
University of Amsterdam
Department of Philosophy
Advisors: Prof. F. Veltman, prof. R. Blutner
Main subject: Philosophy of Mind & Cognition

RESEARCH EXPERIENCE

- 2009** **Stanford University, Stanford, USA**
Working Visit Decision Neuroscience Lab, prof. S.M. McClure. (Aug)
Funding: Leids Universitair Fonds (€ 2000)
- 2006** **Princeton University, Princeton, USA**
Visiting Student Research Collaborator, prof. J.D. Cohen (Jan-Sept)
Funding: Hendrik Muller Vaderlandsch Fonds (€ 3500),
 AUV fonds (€ 1500),
 Vrijvrouwe van Rendswoude (€ 2000),
 Bekker La Bastide Fonds (€ 1000),
 Hersenstichting (€ 1000).
- 2006** **Institute for Advanced Studies – the School of Social Science –Princeton, USA**
Seminar Topic "Psychology and Economics" (seminar participant)

AWARDS & FELLOWSHIPS

- 2010** Insititue for the Study of Education and Human Development (ISED) best Article Prize 2010 (van den bos et al., 2010, Pscyh Sci, € 500),
- 2010** Top ranked abstract Human Brain Mapping conference 2010,
- 2009** Stipend for the Summer Workshop on Decision Neuroscience (\$ 1500),
- 2007** Travel Award for the Neural Systems of Social Behavior Conference,
- 2006** Travel Award for Stanford Summerschool Neuroeconomics.

RESEARCH FUNDING

- 2012-2016** NIH/NIMH RO1 Developmental Changes in Neural Processes Underlying Impulsivity and ADHD. [\[more detail\]](#) (**\$ 784,883**) (**PI Julie Schweitzer**)(**Co-investigator**)
- 2012-2013** NIA R13 Interdisciplinary research on decision-making and emotion regulation in life course transitions (**PI: Robert Levenson , Co-investigator**)
- 2012-2014** NWO Rubicon Grant (Dutch Science Foundation) 'Development Differences in Delay Discounting' (**€ 118.642**) (**PI**)
- 2011-2013** Volkswagen Stiftung- European Platform for the Life Sciences. Reflective and Pre-Reflective Processes in Social Interaction (**€ 92.100**)
with Vivian Bohl, Marion Godman, Mog Stapleton, Christoph Teufel & Marijn van Wingerden - **Co-PI**
- 2012** 'Individual and Development Differences in Delay Discounting' NeuroVentures seed grant (**\$ 4.300**)
with Samuel McClure. **PI**

- 2012** 'Elucidating The Brain's Motor-Coordination Strategy II' NeuroVentures seed grant (\$ 4.300)
with Samuel McClure, Oussama Khatib, Kwabena Boahen and Samir Menon - **Co-investigator**
- 2011** 'Elucidating The Brain's Motor-Coordination Strategy I' NeuroVentures seed grant (\$ 4.400)
with Samuel McClure, Oussama Khatib, Kwabena Boahen and Samir Menon - **Co-investigator**

PUBLICATIONS

1. Will, G. J., Güroğlu, B., **van den Bos, W.**, & Crone, E. A. (*in press*). cting on Observed Social Exclusion: Developmental Perspectives on Punishment of Excluders and Compensation of Victims. *Developmental Psychology*.
2. **van den Bos, W.**, Talwar, A., & McClure, S.M. (2013) Neural correlates of reinforcement learning and social preferences in competitive bidding. *Journal of Neuroscience*. 33(5): 2137-2146
3. **van den Bos, W.** & McClure S.M. (2012) Towards a General Model of Temporal Discounting. *Journal of the Experimental Analysis of Behavior*. 99(1): 58-73
4. Bohl, V.* & **van den Bos W.***, (2012). An integrative account of social cognition: marrying theory of mind and interactionism to study the interplay of pre-reflective and reflective processes .(*Frontiers in Neuroscience Research Topic "Toward a neuroscience of social interaction"*)
5. Rutledge K.M., **van den Bos W.**, McClure S.M., Schweitzer, J.B. (2012) Cognitive training for ADHD: Current findings, borrowed concepts and future directions *Neurotherapeutics*.
6. **van den Bos, W*.**, Crone, E. A.*, & Güroğlu, B. (2012) Brain function during feedback-based learning in relation to IQ and education. *Developmental Cognitive Neuroscience*. 2(1), 78-89. * equal contribtion
7. **van den Bos, W.**, van Dijk, E. & Crone, E. A. (2012). Learning Who To Trust In Repeated Social Interactions: A Developmental Perspective. *Group Processes & Intergroup Relations*. 15(2), 243-256.
8. Tang G.S.M., **van den Bos W.**, Andrade E., McClure S.M. (2011). Social phobia modulates risk sensitivity through activity in the anterior insula. *Frontiers in Decision Neuroscience*. 5, 142.

9. **van den Bos, W.**, Cohen, M.X., Kahnt, T. & Crone, E. A. (2011). Striatum-medial prefrontal cortex connectivity predicts developmental changes in reinforcement learning. *Cerebral Cortex*.
10. **van den Bos, W.**, & Crone, E.A. (2011) The Neuroscience of Social Decision-Making: A Developmental Perspective. In 'Neural Basis of Motivational and Cognitive Control' (R. Mars, J. Sallet, M. Rushworth, & N. Yeung, eds.) MIT Press.
11. Güroğlu, B.*, **van den Bos, W.***, Rombouts, S.A.R.B. & Crone, E. A. (2011) Dissociable brain networks involved in development of fairness considerations: Understanding intentionality behind unfairness. *NeuroImage*, 57(2), 634-641.
* equal contribution
12. **van den Bos, W.**, Van Dijk, E., Westenberg, P. M., Rombouts, S. A. R. B. & Crone, E. A. (2011a). Changing Brains, Changing Perspectives: The Neurocognitive Development of Reciprocity. *Psychological Science*, 22(1), 60-70.
13. McClure, S.M. & **van den Bos, W.** (2010) The psychology of common value auctions. In Attention and Performance XXIII: Decision Making (E. Phelps, T. Robbins, & M. Delgado, eds.) Oxford University Press.
14. Güroğlu, B., **van den Bos, W.**, Rombouts, S.A.R.B. & Crone, E. A. (2010) Unfair? It depends: Neural correlates of fairness in social context. *Social Cognitive and Affective Neuroscience*, 5 (4), 414-423.
15. **van den Bos, W.**, Westenberg, P. M., van Dijk, E. & Crone, E. A. (2010) Development of Trust and Reciprocity in Adolescence. *Cognitive Development*, 25 (1), 90-102.
16. **van den Bos, W.**, Güroğlu, B., van der Bulk, B. G., Rombouts, S.A.R.B. & Crone, E. A. (2009) Better than expected or as bad as you thought? The neurocognitive development of probabilistic feedback processing. *Frontiers in Neuroscience*, 3:52
17. Güroğlu, B., **van den Bos, W.** & Crone, E. A. (2009) Fairness considerations: Increasing understanding of intentionality in adolescence. *Journal of Experimental Child Psychology*, 104, 398–409.
18. **van den Bos, W.** & Güroğlu, B. (2009) The Role of the Ventral Medial Prefrontal Cortex in Social Decision Making. *Journal of Neuroscience*. 29(24), 7631-7632.
19. Güroğlu, B., **van den Bos, W.** & Crone, E. A. (2009). Neural Correlates of Social Decision Making and Relationships: A Developmental Perspective. *Annals of the New York Academy of Sciences*, 1167, 197-206.
20. **van den Bos, W.**, van Dijk, E., Westenberg, P. M., Rombouts, S.A.R B. & Crone, E. A. (2009) What motivates repayment? Neural correlates of reciprocity in the Trust Game. *Social Cognitive and Affective Neuroscience*, 4(3), 294-304.

21. **van den Bos, W.**, Li, J., Lau, T., Maskin, E., Montague, P.R., Cohen, J.D. & McClure, S.M. (2008) The value of victory: Social influences on bidding in common value auctions. *Journal of Judgment and Decision Making*, 7(3), 483-492.
22. **van den Bos, W.**, McClure, S.M., Harris, L.T., Fiske, S.T. & Cohen, J.D. (2007) Dissociating affective evaluation and social cognitive processes in ventral medial prefrontal cortex. *Cognitive, Affective and Behavioral Neuroscience*, 7(4), 337-346.
23. Harris, L.T., McClure, S.M., **van den Bos, W.**, Fiske, S.T. & Cohen, J.D. (2007) MPFC as an affective region especially tuned to social stimuli. *Cognitive, Affective and Behavioral Neuroscience*, 7(4), 309-316.

TALKS & PRESENTATIONS (selected)

1. *Decisions and Development: a multiple systems perspective*, 2013, UCSF, San Francisco VA Medical Center, USA.
2. *Connectivity strength in cortico-striatal loops predict individual differences in discounting*, Psychology Seminar, Stanford, USA
3. *Connections in Decision and Developmental Science*. Institute of Human Development seminar series, 2013, UC Berkeley, USA
4. *Connections in Decision and Developmental Science*. 2012, Leiden University, the Netherlands
5. *The Neural Mechanisms of the Winner's Curse*. Society for Judgment and Decision-Making annual meeting 2011, Seattle, USA.
6. *The Value of Victory - the Neural Mechanisms of the Winner's Curse*. Society for Neuroeconomics 7th annual meeting 2011, Chicago, USA.
7. *Neurocognitive Mechanisms of Social Development in Adolescence*, Psychology Seminar, Stanford, USA.
8. *Neurocognitive development of feedback processing*. 2nd annual VNOP conference 2010, Wageningen, the Netherlands
9. *Neurocognitive development of probabilistic learning and feedback processing*. Workshop Challenges and Methods in Developmental Neuroimaging 2009, Amsterdam, the Netherlands
10. *Neurocognitive development of reciprocity in Adolescence*. 10th annual EFCAP conference 2008, Amsterdam, the Netherlands
11. *Neural correlates of Reciprocity*. ASPO Social Neuroscience Symposium 2008, Nijmegen, the Netherlands
12. *Developmental Changes in Brain Mechanisms underlying Cooperation and Competition in Adolescence*. 20th Biennial ISSBD meeting 2008, Wurzburg, Germany.
13. *Development of Trust and Reciprocity*. Society for Neuroeconomics Third annual meeting 2007, Boston, USA.
14. *Development of Trust in Adolescence*. Expert meeting: Risks and opportunities in adolescent brain development hosted by Leiden University. 2007
15. *The Winner's Curse and the value of victory*. Baylor Medical College, Human Neuroimaging Institute, 2006, Houston, Texas, USA

16. *The Medial Prefrontal Cortex and Social Cognition*, Neuroscience of Social Decision Making Seminar series (NSDM), 2006, Princeton University, Princeton, USA

WORKSHOPS & SYMPOSIA

1. **Methods in Studying Social Cognition** - April 3-5 2013, Düsseldorf, Germany ((with Vivian Bohl, Marion Godman, Mog Stapleton, Christoph Teufel and Marijn van Wingerden)
2. **Decision-Making and Emotion Regulation in Life-Span Transitions** –November 8-9, 2012 David Brower Center, UC Berkeley. (with [BCRN](#))
3. **Pre-reflective and Reflective Processing in Social Interaction** – March 12-14 2012, Elton Room, Clare College, University of Cambridge, UK. (with Vivian Bohl, Marion Godman, Mog Stapleton, Christoph Teufel and Marijn van Wingerden)
4. Pre-Conference Workshop “**Developmental Socio-Cognitive Neuroscience**” at the 20th Biennial ISSBD meeting 2008, Wurzburg, Germany (with Eveline Crone, Linda van Leijenhorst, Berna Guroglu and Phil Zelazo)
5. NWO autumn school 2007 – **Workshop on Social Decision Making**. Doorwerth, The Netherlands. (with Eveline Crone)
6. Member of the Local Arrangements Committee of the 37th Annual Meeting of the Jean Piaget Society, Amsterdam, the Netherlands, 2007.

POSTERS (selected)

1. Connectivity-based segregation of striatum predicts individual differences in temporal discounting. *Society for Neuroeconomics* 2012, Key Biscane, FL, USA
2. The Effect of Plate Rim Widths and Designs on Perceptions of Food Portions McClain AD, *van den Bos W, Matheson D, Desai M, McClure S, Robinson TN. *The Obesity Society*, San Antonio, TX, USA
3. The Value of Victory - the Neural Mechanisms of the Winner's Curse. *Cognitive Neuroscience Society Annual Meeting* 2011, San Francisco, USA.
4. Differences in brain function and structure during feedback-based learning in relation to IQ and education. *ISSBD conference* 2010, Lusaka, Zambia.
5. Neurocognitive development of reinforcement learning. *Human Brain Mapping conference* 2010, Barcelona, Spain.
6. Neurocognitive development of probabilistic learning and feedback processing. *SRCD conference* 2009, Denver, USA.
7. Developmental Changes in Brain Mechanisms underlying Reciprocal behavior. *Cognitive Neuroscience Society Annual Meeting* 2009, San Francisco, USA.
8. Developmental Changes in Brain Mechanisms underlying Cooperation and Competition in Adolescence. *Jean Piaget Society Annual Meeting* 2008, Quebec, Canada.
9. Neural Correlates of reciprocity in the Trust Game. *Cognitive Neuroscience Society Annual Meeting* 2008, San Francisco, USA.
10. Development of Trust in Adolescence. *Jean Piaget Society Annual Meeting* 2007, Amsterdam, the Netherlands.

11. Dissociating affective evaluation and social cognitive processes in ventral medial prefrontal cortex. *Social Affective Neuroscience Meeting 2007*, Austin, USA.
12. Dissociating affective evaluation and social cognitive processes in ventral medial prefrontal cortex. *Cognitive Neuroscience Society Annual Meeting 2007*, New York, USA.

PROFESSIONAL ACTIVITIES

Editorial Board

Journal of Open Psychology Data

Ad Hoc Reviewer:

Journals:

Biological Psychology; Cerebral Cortex; Cognitive, Affective & Behavioral Neuroscience; Developmental Psychology; Developmental Science; European Child & Adolescent Psychiatry; European Journal of Neuroscience; European Journal of Social Psychology; Frontiers in Human Neuroscience; Frontier in Emotion Science ; Journal of Cognitive Neuroscience; Journal of Neuroscience; NeuroImage; Neuropsychologia, Psychological Science; Psychology and Economics; Psychology of Addictive Behaviors; Social Cognitive & Affective Neuroscience; Social Neuroscience; Social Psychological and Personality Science.

Conference submissions: American Psychological Association (APA), Society for the Study of Child Development (SRCD).

Grant proposals: NWO VENI (Netherlands), OMHF (Canada), FWO (Belgium).

Other professional activities:

- Co-creator of P2PU course [Open Science: An Introduction](#)
- Consultant San Francisco [Exploratorium](#) exhibition “science of sharing” 2012-2014
- Consultant North Carolina museum of life science “experimonths” 2012-2013
- Guest lectures for children, parents and teachers at several high-schools in the Netherlands;
- Popular Science talks:
 - ‘Nature, Nurture & Neuroscience’ presentation for [Kamermans Kermis](#) at the Balie, Amsterdam;
 - ‘vertrouwen en eerlijkheid in de adolscentie’ presentation on the LIBC-junior science fair, 2010;
 - ‘Hoe werkt het puberbrein’ presentation on the [I-Brain festival](#) 2010, Ghent, Belgium;
- Representing Leiden University research in ‘[The Battle of The Universities](#)’ finals (2008) (team Brain and Development Lab);
- Interviews with popular media (see [website](#));
- On-line journal club on Decision & Developmental Neuroscience with 650+ followers (http://twitter.com/#!/Journal_Club)

Society Memberships:

Cognitive Neuroscience Society (CNS),
Organization for Human Brain Mapping (OHBM),
Society for the Study of Child Development (SRCD),
Society for the Research on Adolescence (SRA),
Society for Neuroeconomics (SfN),
Society for Judgment and Decision Making (SJDM).

TEACHING

- Organization of interdisciplinary seminar series on behavioral change at UC Berkeley, as post-doc member of the behavioral change research network (BCRN, see: <http://iber.berkeley.edu/BCRN/>).
 - Pre-University college: 6 week introduction course in Psychology & Neuroscience for High School students (designed course materials and gave all the lectures & workshops)
 - Supervision of students during the completion of their education with an independent Bachelor and (research) Masters thesis (2007-2010);
 - Teaching Assistant and Coordinator of recitation and discussion sessions for graduate course 'Social-Emotional Development' (2007-2010);
 - Lecturer in graduate course 'Social-Emotional Development' (2008-2010);
 - Supervision of practical session of "fMRI Course: data analysis and statistics" (2007-2009)
 - Teaching Assistant in several undergraduate courses at the department of Developmental Psychology (2007-2011).
 - **Guest Lectures:** Developmental Cognitive Neuroscience (Stanford University, Advanced Cognitive Neuroscience), Neural Correlates of Anti-Social behavior (LUMC, course on Forensic Youth Psychiatry for medical students); Psychology of Judgment and Decision-Making (Webster University, MBA course in Judgment and Decision-Making)
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