

Alice De Visscher - alice.devisscher@ppw.kuleuven.be

PhD
 Parenting and Special Education Research Unit – KULeuven, Belgium
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Currently

Postdoc fellow in KULeuven in the lab of Prof Bert De Smedt.

Personal details

Nationality: Belgian	Work Address: Faculty of Psychology and Educational Sciences
Date of birth: 1 st of April 1984	Parenting and Special Education Research Unit
	Leopold Vanderkelenstraat, 32
	B 3000 Leuven
	Belgium

Education

Jan 2014	PhD, Psychological Sciences Research Institute (Greatest distinction)	UCL, Belgium
2007	M.A., Speech and language therapy, Psychological science (Great distinction)	UCL, Belgium
2004	B.A., Psychological science (Distinction)	UCL, Belgium

Awards & scholarships

3-4 Oct 2014	Best poster award at the workshop on Educational Neuroscience of Mathematics, Universität Tübingen, Tübingen, Germany.	
2014-2015	F+ Fellowship KULeuven (1 year)	KULeuven
2010-2014	PhD Student scholarship (4 years)	FNRS Belgium
2014	Travel grant FNRS (2850 euros)	Visiting at the University of Sussex, UK
2012	Travel grant FNRS (1000 euros)	The IARLD conference, Padova, Italy
May 2012	Best scientific poster award of the IPSY-DAY 2012	UCL, Belgium

Publications

De Visscher, A., Berens, S. C., Keidel, J. L., Noël, M.-P., & Bird, C. M. (*in press*). The interference effect in arithmetic fact solving: an fMRI study. *NeuroImage*. DOI:10.1016/j.neuroimage.2015.04.063

De Visscher, A. & Noël, M.P. (2014). The detrimental effect of interference in multiplication facts storing: typical development and individual differences. *Journal of Experimental Psychology: General*, 143(6), 2380-2400. DOI: 10.1037/xge0000029.

De Visscher, A., & Noël, M.P. (2014). Arithmetic facts storage deficit: The hypersensitivity-to-interference in memory hypothesis. *Developmental Science*, 17(3), pp 434-442. DOI: 10.1111/desc.12135

Noël, Rousselle, & De Visscher (2013). La dyscalculie développementale: à la croisée de facteurs numériques spécifiques et de facteurs cognitifs généraux. *Développements*, 15(2), pp 24-31. **DOI** : 10.3917/devel.015.0024

De Visscher, A., & Noël, M. P. (2013). A case study of arithmetic facts dyscalculia caused by a hypersensitivity-to-interference in memory. *Cortex*, 49(1), pp 50-70. **DOI**: 10.1016/j.cortex.2012.01.003

De Visscher, A, Szmalec, A., Van der Linden, L., & Noël, M.P. (under revision). Serial-order learning impairment and hypersensitivity-to-interference in dyscalculia. *Cognition*.

Stay abroad

Sept 2013 – Sept 2014 Episodic memory lab, University of Sussex, Brighton, UK

Supervisor: Dr Chris Bird

Employment history

10.14-09.15	Postdoc fellowship F+ KUL	KULeuven, Belgium
10.10- 09.14	Doctoral scholarship FNRS (Fonds National de la Recherche Scientifique)	UCL, Belgium
09.09-10.10	Teaching Assistant in Speech and language therapy	UCL, Belgium
11.07-08.09	Speech therapist in Neuropediatrics	Clinique et Maternité Sainte Elisabeth, Namur
07.07- 05.08	Speech therapist in Neuropediatrics	Cliniques Universitaires Saint Luc, Brussels

Teaching experience

2009-2010. Teaching Assistant: Oral language (Master), UCL.

2009-2010. Teaching Assistant: Written language (Master), UCL.

2009-2010. Teaching Assistant: Neurolinguistic diagnosis (Master), UCL.

2009-2010. Teaching Assistant: Neurolinguistic treatment (Master), UCL.

March 2011. Lecture on Dysphasia, (Master) UCL.

March and April 2012. Lectures on the diagnosis of dyscalculia, tools and case studies. Training for speech therapists at UCL, Louvain-la-Neuve, Belgium.

Master thesis co-supervisor of : Morgane Sabatier, Florence Plain, Laurène Jacquart, Kristell Desagher, Séverine Fraiteur.

Training supervisor of ten students.

Organized events

Co-organizer and lecturer with Pr Noël

March and April 2012 Training on diagnosis and treatment of dyscalculia UCL, Louvain-la-Neuve, Belgium

Invited seminars

- **De Visscher, A.** (28th May 2015). *L'effet d'interférence dans l'apprentissage des faits arithmétiques*. Université de Rennes, France.
- **De Visscher, A.** (24th March 2015). *When '3 x 8 = 24' looks like '4 x 8 = 32': similarity interference in arithmetic fact learning*. Invited seminar in the School of Psychology, KULeuven, Leuven, Belgium.
- **De Visscher, A.** (October 2013). *Dyscalculia: insights from memory models*. Cognitive Brown Bag Seminar, School of Psychology, University of Sussex, United Kingdom.
- **De Visscher, A.** (May 2013). *The role of interference in arithmetic facts storage*. Invited lecturer in the *Cognition and Systems (COSY)* seminars, Institute of Neuroscience, UCL, Brussels, Belgium.
- **De Visscher, A.** (April 2012). *Arithmetic facts dyscalculia: the hypersensitivity-to-interference hypothesis*. Invited lecturer in the seminars of the Basic Psychology Department and Institute for Brain, Cognition and Behavior, University of Barcelona, Barcelona, Spain.
- **De Visscher, A.** (June 2012). *Tour d'horizon de la dyscalculie développementale*. Invited lecturer in the scientific conference of the Centre de référence Neuropédiatrique Multidisciplinaire (CNM) of the Clinique et Maternité Sainte Elisabeth de Namur, Namur, Belgium.

Papers presented at conferences

2015

- **De Visscher, A.,** Berens, S.C., Keidel, J.L., De Smedt, B., Noël, M.-P., & Bird, C.M. (10th April 2015). *The interference effect in arithmetic facts solving: an fMRI study*. Oral presentation at the 7th annual expert meeting on Mathematical Thinking and Learning, Radboud University, Nijmegen, The Netherlands.
- **De Visscher, A.,** Noël, M.-P., De Smedt, B. (21st March 2015). *The interference effect in multiplication facts storing: typical and atypical development*. Poster presented at the Biennial meeting of the Society for Research in Child Development, Philadelphia, USA.
- **De Visscher, A.** (14th March 2015). *The interference effect in arithmetic facts learning*. Oral presentation that was a part of the symposium organized by J. Campbell: Individual Differences in Math and Number Skills at the International Convention of Psychological Science (ICPS), Amsterdam, The Netherlands.

2014

- **De Visscher, A.,** Noël, M., De Smedt, B., Pesenti, M., Dormal, V. (5 Nov 2014). *Number, length and duration processing in adults with developmental dyscalculia*. Poster presented at the British Neuropsychological Society Autumn Meeting. London, UK.
- **De Visscher, A.,** & Noël, M.-P. (3-4 Oct 2014). *Arithmetic facts learning deficit due to hypersensitivity-to-interference in memory: a longitudinal study*. Poster presented at the workshop on Educational Neuroscience of Mathematics, Universität Tübingen, Tübingen, Germany. (BEST POSTER AWARD)
- **De Visscher, A.,** & Noël, M.-P. (June 2014). *The detrimental effect of interference in multiplication facts storing: typical development and individual differences*. Poster presented at the 3rd biennial SIG 22 conference, Göttingen, Germany.

- **De Visscher, A., & Noël, M.-P.** (April 2014). *The detrimental effect of interference in multiplication facts storing: typical development and individual differences*. Paper presented at the 3rd annual meeting of the Brain4Numbers (FNRS group) - Advances in Numerical Cognition Research, UCL, Louvain-la-Neuve, Belgium.

2013

- **De Visscher, A., Szmalec, A., Van der Linden, L., & Noël, M.P.** (May 2013) *Serial order learning impairment in dyscalculia*. Paper presented at the Belgian Association for Psychological Sciences (BAPS) Annual Meeting, UCL, Louvain-la-Neuve, Belgium.
- **De Visscher, A. & Noël, M.P.** (March 2013). *The role of interference in arithmetic facts storage*. Paper presented at the 5th Expert meeting on Mathematical Thinking and Learning, University of Luxembourg, Walferdange, Luxembourg.

2012

- **De Visscher, A., & Noël, M.P.** (June 2012). *A case study of arithmetic facts dyscalculia caused by a hypersensitivity-to-interference in memory*. Paper presented at the 36th annual International Academy for Research in Learning Disabilities (IARLD), University of Padova, Padua, Italy.
- **De Visscher A. & Noël, M.P.** (May 2012). *Do math abilities depend on subitizing?*. Poster presented at the 1st joint BAPS (Belgian Association for Psychological Sciences) – SEPEX (Sociedad Española de Psicología Experimental) meeting, University of Liège, Liège, Belgium.
- **De Visscher A. & Noël, MP.** (May 2012). *Do math abilities depend on subitizing?*. Poster presented at the IPSY (Psychological Institute) day 2012, UCL, Louvain-la-Neuve, Belgium. (BEST POSTER AWARD)
- **De Visscher A. & Noël, M.P.** (February 2012). *Do math abilities depend on subitizing?*, Poster presented in the 4th Expert Meeting on Mathematical Thinking and Learning, University of Leuven, Leuven, Belgium.

2011

- **De Visscher A. & Noël, M.P.** (June 2011). *A Specific Impairment of Multiplication in a Case of Developmental Dyscalculia: A Problem of Verbal Routine or of Interference?*. Poster presented in the IPSY (Psychological Institute) Day 2011, UCL, Louvain-la-Neuve, Belgium.
- **De Visscher, A. & Noël, M.P.** (May 2011). *A specific impairment of arithmetic facts in a case of developmental dyscalculia: a problem of verbal routine or of interference?*. Paper presented at the symposium “Numerical cognition: A developmental perspective”, Annual Meeting of the Belgian Association for Psychological Sciences (BAPS), University of Gent, Gent, Belgium.
- **De Visscher, A. & Noël, M.P.** (April 2011). *A Specific Impairment of Multiplication in a Case of Developmental Dyscalculia: A Problem of Verbal Routine or of Interference?*. Poster presented at the workshop on “Typical and Atypical Neurocognitive Aspects of Numerical Processing”, Ben-Gurion University of the Negev, Beer Sheva, Israel.

2010

- **De Visscher, A. & Noël, M.P.** (November 2010). *A specific impairment of multiplication in a case of developmental dyscalculia: A problem of verbal routine or of interference*. Paper presented at the 2nd Phd Student Day of the Institute of Neuroscience (IoNS), UCL, Brussels, Belgium.

Refereeing activity

- NeuroImage
- Journal of Experimental Psychology: General

- Research in Developmental Disabilities
- Neuropsychologia
- Acta Psychologica
- Quarterly Journal of Experimental Psychology
- Scandinavian Journal of Psychology

Miscellaneous

- 2012-2013. Representative of the scientific staff of the UCL (Belgium)
- 2012-2013. Member of the Ethical Committee of the Psychological Sciences Research Institute of UCL (Belgium).

Languages

French: native

English: fluent

Dutch: level 1/5

Softwares' mastery

Microsoft, E-prime, SPSS, Photoshop: proficient

Matlab: intermediate

References

Marie-Pascale Noël, Professor in UCL, Belgium

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