

Postdoctoral researcher



Ursina McCaskey, PhD

Neuropsychologist

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Research interests

- **Functional and structural development of the numerical brain and its relation to behaviour in typically developing children and children with developmental dyscalculia**
- **Development of magnitude processing and the relationship to spatial skills in typically developing children and children with developmental dyscalculia**

Curriculum vitae

Education

- 2015 **PhD (Dr.phil.) in Cognitive Neurosciences**, *“Development of magnitude and number representation and its relation to space in typically developing children and children with developmental dyscalculia”*, University of Zurich, Switzerland.
- 2010 **MSc (Lic. phil.) Psychology**, *„Zahlenraumvorstellung bei Kindern mit Dyskalkulie – Evaluation eines Trainingsprogramms“*, University of Zurich, Switzerland.
- 2002 **Diploma as Primary School Teacher**, Bündner Lehrerseminar, Chur, Switzerland.

Professional Training

- 2017 **Good Clinical Practice GCP**, Module 3, Clinical Trial Center CTC, University of Zurich, Switzerland.
Project management for successful postdocs, Graduate Campus, University of Zurich, Switzerland.
- 2016 **Good Clinical Practice GCP**, Module 1 and 2, Clinical Trial Center CTC, University of Zurich, Switzerland.
- 2015 **How to write a scientific grant application**, Faculty of Medicine, University of Zurich, Switzerland.

2011 **SPM (Statistical Parametric Mapping) course for fMRI**, University Medical Center Hamburg-Eppendorf (UKE), Hamburg, Germany.

Employment

since 2015 **PostDoc**, Center for MR-Research, University Children's Hospital Zurich
 2014 **Psychologist**, Entwicklungspädiatrie, Sozialpädiatrisches Zentrum SPZ, Kantonsspital Winterthur
 2010-2015 **Research Assistant**, Center for MR-Research, University Children's Hospital Zurich
 2010 **Work placement**, Center for MR-Research, University Children's Hospital Zurich
 2008-2009 **Neuropsychologist**, Department of Child- and Adolescent Psychiatry, Chur
 2007 **Work placement**, Department of Child- and Adolescent Psychiatry, Chur
 2002-2005 **Substitute teacher** at primary schools in Switzerland

Research career brakes

Since Nov. 2015 Part-time working (60%) due to family reasons.

2015 Maternity leave for 5 months after birth of son Donavan Jack 01.06.2015

Publications

- McCaskey U**, von Aster M, Maurer U, Martin E, O'Gorman R, Kucian K (submitted). Longitudinal brain development of numerical skills in children with developmental dyscalculia. *Frontiers in Human Neuroscience*.
- McCaskey U**, von Aster M, O'Gorman R, Karin K (2017). Adolescents with developmental dyscalculia do not have a generalised magnitude deficit - Processing of concrete and continuous magnitudes. *Frontiers in Human Neuroscience*, 11(102).
- Kohn J, Rauscher L, Käser T, Kucian K, **McCaskey U**, Esser G, von Aster M (2017). Effekte eines computerisierten Rechentrainings bei Kindern mit Rechenschwäche. Teil 1: Verbesserungen der arithmetischen Fertigkeiten und der Zahlenraumvorstellung. *Lernen und Lernstörungen*, 6(2), 51-63.
- Rauscher L, Kohn J, Käser T, Kucian K, **McCaskey U**, Wyschkon A, Moraske S, Esser G, von Aster M (2017). Effekte eines computerisierten Rechentrainings bei Kindern mit Rechenschwäche. Teil 2: Auswirkungen auf psychische Auffälligkeiten, Selbstbewertungen der eigenen Kompetenz und Leistungssängste. *Lernen und Lernstörungen*, 6(2), 75-86.
- Rauscher L, Kohn J, Käser T, Mayer V, Kucian K, **McCaskey U**, Esser G, von Aster M (2016). Evaluation of a computer-based training program for enhancing arithmetic skills and spatial number representation in primary school children. *Frontiers in Psychology*, 7, 913.
- Kohn J♦, Kucian K♦, Wuithschick E, Mayer V, Rauscher L, **McCaskey U**, Käser T, Poltz N, Wyschkon A, Quandt S, Esser G, von Aster MG (2015) Rechenleistung und Fingeragnosie: Besteht ein Zusammenhang? Eine Studie bei Grundschulkindern mit und ohne Rechenschwäche. *Lernen und Lernstörungen*, 4(3), 209-223. ♦ shared first authorship
- Käser T, Baschera GM, Kohn J, Kucian K, Richtmann V, **Grond U**, Gross M, von Aster M (2013). Design and evaluation of the computer-based training program *Calcularis* for enhancing numerical cognition. *Frontiers in Developmental Psychology*, 4, 1-13.

Kohn J, Richtmann V, Rauscher L, Kucian K, Käser T, **Grond U**, Esser G, von Aster M (2013). Das Mathematikangstinterview (MAI) – Erste psychometrische Gütekriterien. *Lernen und Lernstörungen*, 2(3), 177–189.

Kucian K, Kohn J, Richtmann V, **Grond U**, Käser T, Hannula-Sormunen M.M., Esser G, von Aster M (2012). Kinder mit Dyskalkulie fokussieren spontan weniger auf Anzahligkeiten. *Lernen und Lernstörungen*, 1(4), 241-253.

Kucian K, **Grond U**, Rotzer S, Henzi B, Schonmann C, Plangger F, Galli M, Martin E, von Aster M (2011). Mental number line training in children with developmental dyscalculia. *NeuroImage*, 57(3), 782-95.

Book Chapters

Grond U, Schweiter M, von Aster M. (2013). Neuropsychologie numerischer Repräsentationen. In von Aster M, Lorenz J, *Rechenstörungen bei Kindern. Neurowissenschaft, Psychologie, Pädagogik*, 2. Auflage. Göttingen: Vandenhoeck & Ruprecht, 39–57.