

INES MÜRNER-LAVANCHY

CURRICULUM VITAE

University Hospital of Child and Adolescent
Psychiatry and Psychotherapy
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PROFESSIONAL APPOINTMENTS

- 09/18 – present Post-doctoral Research Fellow, University Hospital of Child and Adolescent Psychiatry and Psychotherapy (Prof. Michael Kaess), Bern, Switzerland.
- 06/17 – 06/18 Post-doctoral Research Fellow, Monash Institute of Cognitive and Clinical Sciences (Prof. Peter J. Anderson), School of Psychological Sciences, Monash University, Australia.
- 06/17 – 06/18 Honorary Research Fellow, Murdoch Children's University Hospital, Department of Clinical Sciences, Melbourne, Australia.
- 11/14 – 05/17 Post-doctoral Researcher (part-time), Department of Neuropediatrics, Development and Rehabilitation (Prof. Regula Everts), Children's University Hospital Bern and Support Center for Advanced Neuroimaging (SCAN), Department of Diagnostic and Interventional Neuroradiology, University Hospital Bern.
- 11/14 – 05/17 Clinical Neuropsychologist (part-time), Department of Neuropediatrics, Development and Rehabilitation, Children's University Hospital Bern.
- 07/13 – 07/15 Research and Teaching Assistant, Institute of Psychology, Division of Experimental Psychology and Neuropsychology (Prof. Walter Perrig), University of Bern.
- 07/12 – 01/13 Part-time clinical Neuropsychologist, Department of Neuropediatrics, Development and Rehabilitation, Children's University Hospital Bern.
- 07/11 – 05/12 Research Assistant, Department of Diagnostic and Interventional Neuroradiology (Prof. Regula Everts), University Hospital Bern.
- 05/11 – 06/11 Traineeship, Brain and Behaviour Lab, Birkbeck University of London, Great Britain. ,Behavioral and electrophysiological Correlates of visual search tasks', EEG Lab (Dr. Anna Grubert, Prof. Martin Eimer).
- 03/10 – 09/10 Research Assistant, Experimental Psychology, University of Neuchâtel, Switzerland. ,Emotion recognition in Faces' (Dr. Petra Schmid).
- 06/09 – 09/09 Traineeship, Division of Experimental Psychology and Neuropsychology, University of Bern. ,Intuition and emotion processing' (Dr. Daniela Blaser, Prof. Walter Perrig).

EDUCATION

- 10/13 – 10/14 Graduate Student at the Swiss Graduate School for Cognition, Learning and Memory (CCLM), University of Bern, Switzerland.
- 10/12 – 10/14 Dissertation, Department of Neuropediatrics, Development and Rehabilitation, Children's University Hospital Bern and Institute of Psychology, University of Bern.
Thesis: 'Structural and Functional Brain Development in Very Preterm Born Children'. *Summa cum laude*.

- 09/10 – 09/12 Master of Science in Psychology, Experimental Psychology and Neuropsychology, Institute of Psychology, University of Bern.
Thesis: 'Neural Language Organisation in Children Born Very Preterm'. *Summa cum laude*.
- 09/07 – 09/10 Bachelor of Science in Psychology (Major), Institute of Psychology, University of Bern.
Thesis: 'Der Einfluss von Stimmung, Informationsverarbeitung und Geschlecht auf das Erkennen von Emotionen in Gesichtern'. *Summa cum laude*. General Linguistics (Minor), Institute of Linguistics, University of Bern.

PUBLICATIONS

Schöne C., Everts R., **Mürner-Lavanchy I.**, & Steinlin M. (in press). Development of executive functions from childhood to adolescence in very preterm-born individuals - A longitudinal study. *Early Human Development*.

Mürner-Lavanchy, I., Kidokoro, H., Thompson, D., Doyle, L.W., Cheong, J., Hunt, R., Inder, T., & Anderson, P.J. (in press). Thirteen-year outcomes in very preterm children associated with diffuse excessive high signal intensity (DEHSI) on neonatal magnetic resonance imaging. *Journal of Pediatrics*.

Mürner-Lavanchy, I., Kelly, C., Reidy, N., Doyle, W.L., Thompson, D., Morgan, A., & Anderson, P. J. (in press). White matter microstructure is associated with language in children born very preterm. *Neuroimage: Clinical*.
<https://doi.org/10.1016/j.nicl.2018.09.020>

Mürner-Lavanchy, I. M., & Anderson, P. J. (in press). Developmental Disorders Among Very Preterm Children. *Current Developmental Disorders Reports*. <https://doi.org/10.1007/s40474-018-0151-4>

Mürner-Lavanchy, I., Doyle, L., Schmidt, B. K., Roberts, R., Asztalos, E., Costantini, L., Davis, P. G., Dewey, D., D'Ilario, J., Grunau, R., Moddemann, D., Nelson, H., Ohlsson, A., Solimano, A., Tin, W., Anderson, P. J. (2018). Neurobehavioral outcomes 11 years after neonatal caffeine therapy for apnea of prematurity. *Pediatrics*, 141(5), e20174047. doi: 10.1542/peds.2017-4047

Mürner-Lavanchy, I., Rummel, C., Steinlin, M., & Everts, R. (2018). Cortical morphometry and cognition in very preterm and term-born children at early school age. *Early Human Development*. doi: 10.3109/17518423.2015.1027010

Everts, R., **Mürner-Lavanchy, I.**, Schroth, G., & Steinlin, M. (2017). Neural change after different memory training approaches in children born very preterm – a pilot study. *Developmental Rehabilitation*, 19, 1-11. doi: 10.3109/17518423.2015.1027010

Mürner-Lavanchy, I., Steinlin, M., Kiefer, C., Weisstanner, C., Ritter, B.C., Perrig, W.J. & Everts, R (2014). Delayed development of neural language organization in very preterm born children. *Developmental Neuropsychology*, 39, 529-542. doi: 10.1080/87565641.2014.959173

Mürner-Lavanchy, I., Ritter, B.C., Spencer-Smith, M.M., Perrig, W.J., Schroth, G., Steinlin, M., & Everts, R. (2014). Visuospatial working memory in very preterm and term born children - Impact of age and performance. *Developmental Cognitive Neuroscience*, 9, 106-116. doi: 10.1016/j.dcn.2014.02.004

Mürner-Lavanchy, I., Steinlin, M., Nelle, M., Rummel, C., Perrig, W.J., Schroth, G., & Everts, R (2014). Delay of cortical thinning in very preterm born children. *Early Human Development*, 90, 443-450. doi: 10.1016/j.earlhumdev.2014.05.013

Spencer-Smith, M., Ritter, B.C., **Mürner-Lavanchy, I.**, El-Koussy, M., Steinlin, M., & Everts, R. (2013). Age, sex and performance influence the visuospatial working memory network in childhood. *Developmental Neuropsychology*, 38, 236-255. doi: 10.1080/87565641.2013.784321

HONORS, GRANTS AND AWARDS

- 03/18 Monash University, Medicine, Nursing and Health Sciences, Faculty Travel Grant to visit the Perinatal Society of Australia and New Zealand Annual Scientific Congress in Auckland, New Zealand, 1680 Australian Dollar.
- 11/17 Best oral presentation - early career post-doctoral researcher 'The association between white matter tracts and language functioning in very preterm children'. 7th Australasian Cognitive

Neuroscience Society Conference, Adelaide, Australia.

- 07/16 Federation of European Neuroscience Societies (FENS) and International Brain Research Organization (IBRO) Travel Grant to visit the 10th Forum of Neuroscience in Copenhagen, Denmark, 750 Euros.
- 11/15 Bangerter-Rhyner Foundation Switzerland – Brain development in formerly very preterm-born adolescents – a long-term study' (PI: Regula Everts) 50'000 Swiss Francs.
- 08/14 Anna Müller Grocholski Foundation, Switzerland - Dissertation Grant, 19'400 Swiss Francs.
- 12/12 Poster award for the scientific poster 'Language lateralization increases with age in very preterm born 7-12 year- olds but not in term born control children'. 8th Clinical Neuroscience Meeting, University of Bern, Switzerland.
- 11/12 1st Poster award for the scientific poster 'Language lateralisation correlates with age in children born very preterm'. Joint annual meeting of the Swiss Society of Neuroradiology, Bern, Switzerland.

CONFERENCE PRESENTATIONS (Selection)

- 05/18 Mürner-Lavanchy, I., Kidokoro, H., Thompson, D., Doyle, L.W., Cheong, J., Hunt, R., Inder, T., Anderson, P.J. Diffuse excessive high signal intensity and visibility of posterior periventricular crossroads on term-equivalent MRI associated with neurobehavioral outcome in 13-year-old children born very preterm. *Poster*. Annual Pediatric Academic Societies meeting, Toronto, Canada.
- 03/18 Mürner-Lavanchy, I., Kidokoro, H., Thompson, D., Doyle, L.W., Cheong, J., Hunt, R., Inder, T., Anderson, P.J. Neurobehavioral outcomes associated with Diffuse Excessive High Signal Intensity (DEHSI) on neonatal MRI in very preterm born adolescents. *Poster*. Annual Scientific Congress of the Perinatal Society of Australia and New Zealand, Auckland, New Zealand.
- 11/17 Mürner-Lavanchy, I., Kelly, C., Reidy, N., Doyle, W.L., Thompson, D., Morgan, A., Anderson, P. J. The association between white matter tracts and language functioning in very preterm children. *Talk*. Australasian Cognitive Neuroscience Society (ACNS) Conference, Adelaide, Australia.
- 10/17 Mürner-Lavanchy, I., Kelly, C., Reidy, N., Doyle, L., Thompson, D., Morgan, A., Anderson, P. J. Language functioning in very preterm children is associated with white matter microstructure integrity. *Poster*. Early Career Researcher Symposium of the Faculty of Medicine Nursing and Health Sciences Monash University, Australia.
- 10/16 Mürner-Lavanchy, I., Kellner-Weldon, F., Michel, P., Everts, R., Wapp, M., Wiest, R., Schroth, G. Grey matter volumetric changes related to cognitive improvement after treatment of carotid artery stenosis. *Poster*. 10th World Stroke Congress, Hyderabad, India.
- 07/16 Mürner-Lavanchy, I., Rummel, C., Steinlin, M., Everts, R. Cortical morphometry and cognition in preterm- and term-born school-age children. *Poster*. 10th FENS Forum of Neuroscience, Copenhagen, Denmark.
- 09/15 Mürner-Lavanchy, I., Steinlin, M., Rummel, C., & Everts, R. Distinct structure-function relationships in very preterm and term born children. *Poster*. Third annual congress of the International Society for Integrative Developmental Cognitive Neuroscience, FLUX, Leiden, Netherlands.
- 01/15 Mürner-Lavanchy, I., Steinlin, M., Rummel, C., & Everts, R. Cognitive performance is associated with cortical thickness in children born preterm. *Poster*. Joint Meeting of the Swiss Society for Neuroscience and the Clinical Neuroscience, Bern, Switzerland.
- 07/14 Mürner-Lavanchy, I., Steinlin, M., Rummel, C., Perrig, W., Schroth, G., & Everts, R. Delay of cortical thinning in very preterm born children. *Poster*. Mid-Year Meeting of the International Neuropsychological Society, Jerusalem, Israel.
- 06/14 Mürner-Lavanchy, I. Structural and functional brain development in very preterm born children. *Talk*. Summer School of the Swiss Graduate School for Cognition Learning and Memory, Weggis, Switzerland.
- 01/14 Mürner-Lavanchy, I., Nelle, M., Steinlin, M., Rummel, C., Perrig, W. J., Schroth, G., & Everts, R. Cortical

thickness decreases with age in very preterm born school-children but not in term born controls. *Poster*. Joint Meeting of the Swiss Society for Neuroscience and the Clinical Neuroscience, Bern, Switzerland.

- 11/13 Mürner-Lavanchy, I. M., Perrig, W., & Everts, R. Kortikale Dicke bei extrem frühgeborenen Kindern. *Talk*. Research Colloquium Institute of Psychology, Division of Experimental Psychology and Neuropsychology, University of Bern, Switzerland.
- 06/13 Mürner-Lavanchy, I. M., Ritter, B.C., Weisstanner, C., Steinlin, M., Perrig, W.J., & Everts, R. Hippocampal volume is associated with learning and memory performance in children. *Talk*. Swiss Federation of Clinical Neuro- Societies Congress, Montreux, Switzerland.
- 02/13 Mürner-Lavanchy, I. M., Ritter, B.C., Kiefer, C., Weisstanner, C., Perrig, W.J., Steinlin, M., & Everts, R. Hippocampus size is associated with memory performance in children. *Poster*. Pretermbrain Congress, Zürich, Switzerland.
- 12/12 Mürner-Lavanchy, I. M., Ritter, B.C., Kiefer, C., Weisstanner, C., Perrig, W.J., Steinlin, M., & Everts, R. Language lateralisation increases with age in very preterm born 7-12 year-olds but not in term born control children. *Poster*. 8th Annual Meeting of the Clinical Neuroscience, Bern, Switzerland.
- 11/12 Lavanchy, I. M., Ritter, B.C., & Everts, R. Language lateralisation correlates with age in children born very preterm. *Poster*. Joint Annual Meeting of the Swiss Society of Neuroradiology, Bern, Switzerland.
- 09/12 Lavanchy, I. M., Ritter, B.C., Kiefer, C., Hauf, M., Perrig, W., Steinlin, M., & Everts, R. Language lateralisation increases with age in very preterm born 7-12 year-olds but not in term born control children. *Poster*. 27th Annual Meeting of the Neuropsychological Society, Marburg, Germany.

MEDIA COVERAGE

- 04/18 Neonatal Caffeine Citrate for Apnea of Prematurity Tied to Good Long-term Visuospatial Outcomes, Univadis, 13.04.2018, <https://www.univadis.co.uk/viewarticle/neonatal-caffeine-citrate-for-apnea-of-prematurity-tied-to-good-long-term-visuospatial-outcomes-595816>
- 04/18 Caffeine Therapy for Apnea of Prematurity Safe Over Long-term, Practice Update. 12.04.2018 <http://www.practiceupdate.com/content/caffeine-therapy-for-apnea-of-prematurity-safe-over-long-term/66656/22/7/2>
- 04/18 Caffeine for Apnea of Prematurity Found Safe, Clinical Psychiatry News, MDedge, 11.04.2018, <https://www.mdedge.com/psychiatry/article/163167/neonatal-medicine/caffeine-apnea-prematurity-found-safe-effective-11-years>
- 01/18 "Studying the Developing Brain" Interview on 'We are all born scientists' Blog by Nora Maria Raschle and Réka Borbás www.bornascientist.com.
- 12/14 "Frühgeborene Kinder können ihre Defizite aufholen" Berner Zeitung, 23.12.14. <http://www.bernerzeitung.ch/wissen/medizin-und-psychologie/Fruehgeborene-Kinder-koennen-ihre-Defizite-aufholen/story/30780471>
- 09/14 "Frühchen holen geistigen Rückstand auf". 20 Minuten, 12.09.14. <http://www.20min.ch/wissen/news/story/Fruehchen-holen-geistigen-Rueckstand-auf-20109553>
- 08/14 "Auf der Suche nach den feinen Unterschieden". Uni Press Forschung und Wissenschaft an der Universität Bern, 161, 24.08.14.
- 08/14 "Die 'feinen Unterschiede' im Gehirn von Frühgeborenen". Interview mit jungen Nachwuchsforschenden. Uniaktuell, 20.08.14. http://www.uniaktuell.unibe.ch/content/koepfekarrieren/2014/ines_muerner_lavanchy/index_ger.html

TEACHING

- 05/18 Invited Lecture 'Child Neuropsychology and Brain Development' within the Developmental Psychology Unit PSY2071, Monash University, Faculty of Medicine, Nursing and Health Sciences (2 h).
- 10/17 – 08/18 Co-Supervision of Honour's students in Psychology: Simonne Collins, Philippa Pyman, Ashleigh Delahoy, Jessie Gordon.
- 08/13 – 05/17 Co-Supervision of Master's students in Psychology: Bettina Lühinger, Corina Schöne, Sonja Kälin, Sarah Bargetzi.
- 01/16 – 04/16 Tutorial in Developmental Disorders for Master's students in Medicine, Children's University Hospital of Bern, Switzerland (8 h).
- 02/15 – 05/15 Undergraduate seminar course „Neurophysiological Correlates of Mental Processes“ Institute of Psychology, Division of Experimental Psychology and Neuropsychology, University of Bern, Switzerland (26 h).
- 09/14 – 12/14 Undergraduate seminar course „Plasticity – Learning and Memory“ Institute of Psychology, Division of Experimental Psychology and Neuropsychology, University of Bern, Switzerland (28 h).
- 09/14 – 02/15 Womentoring University of Bern. Mentoring program for Master's students considering an academic career. Mentee: Marie Gachet.
- 02/14 – 06/14 Undergraduate seminar course „Psychology of Language“ Institute of Psychology, Division of Experimental Psychology and Neuropsychology, University of Bern, Switzerland (34 h).
- 09/13 – 12/13 Undergraduate seminar course „Emotion and Cognition“ Institute of Psychology, Division of Experimental Psychology and Neuropsychology, University of Bern, Switzerland (28 h).

SERVICE

Ad-hoc review

Pediatrics, NeuroImage, Brain Structure and Function, Early Human Development, PlosOne, Journal of Biomedical Science, Brain Topography, Biomedical and Environmental Science, Journal of Child Psychology and Psychiatry

PROFESSIONAL MEMBERSHIPS

2017-2018 Perinatal Society of Australia and New Zealand
2017-2018 Australasian Cognitive Neuroscience Society
2015 Flux: The Society for Developmental Cognitive Neuroscience
2014 International Neuropsychological Society
Since 2014 Verein für Neuropsychologie des Kindes- und Jugendalters VNKJ

ADVANCED TRAININGS

- 07/17 Longitudinal MRI Workshop, School of Psychology at the Australian Catholic University, Melbourne, Australia.
- 11/16 Advanced training in Student Supervision, Centre for University Continuing Education, Bern.
- 11/14 Training in Research Funding for Female Researchers. Office for gender equality, University of Bern
- 03/14 Training in Functional Neuroimaging in Clinical Neuroscience, Andrea Federspiel, Roland Wiest, University of Bern.

- 02/14 Advanced training in University Didactics, Centre for University Continuing Education, Bern.
- 09/13 Advanced training in Rhetoric, Centre for University Continuing Education, Bern.
- 05/13 Advanced training in Scientific Writing in Life Sciences and Medicine, Centre for University Continuing Education, Bern.
- 09/12 Statistical Parametric Mapping (SPM) Tutorial and Workshop, Department of Systems Neuroscience, Center for Experimental Medicine, University Hospital Hamburg- Eppendorf, Germany.
- 06/12 FreeSurfer Tutorial and Workshop, Vrije Universiteit Medisch Center, Amsterdam, Netherlands.