Curriculum Vitae

Martin Buschkuehl, Ph.D.

Current position and contact information

Research Assistant Professor
Department of Psychology
University of Maryland
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College Park, MD 20742
Email: mbu@umd.edu

Education

2007-2012	Post-doctoral fellow, University of Michigan, USA
2007	Ph.D. in Cognitive Psychology, University of Bern, Switzerland (summa cum laude)
2002	Licentiate in Psychology (equivalent to Masters Degree), University of Bern, Switzerland Major: Experimental Psychology and Clinical Psychology Minor: Psychopathology
1996-2002	Studies in Psychology, University of Bern, Switzerland
1985-1996	Elementary, Middle, and High School, Luzern, Switzerland

Professional Experience

2012-present	Research Assistant Professor, University of Maryland, USA
2007-2012	Post-doctoral fellow, University of Michigan, USA *Prof. John Jonides, Cognitive Neuroscience Laboratory* *Prof. Priti Shah, Basic and Applied Cognition Laboratory*
2003-2007	Doctoral student and assistant, University of Bern, Switzerland *Prof. Walter Perrig*

Grants

2009-2013	National Center for Special Education Research (NCSER) in the Institute of Education Sciences (IES), U.S. Department of Education; Training Working Memory and Executive Control in ADHD Children (R324A090164; $917,317; Role: Co-PI; PI: Prof. Priti Shah)
2009-2013	National Science Foundation (NSF); Improving Fluid Intelligence by Training Working Memory – Investigating its neural correlates by means of fMRI (BCS-084 3446; $312,317; Role: Co-PI; PI: Prof. John Jonides)
2009-2014	Office of Naval Research (ONR)/Department of Defense; Improving Fluid Intelligence by Training Executive Control and Working Memory – Behavioral Investigation (N00014-09-0213; $1,049,737; Role: Co-PI; PI: Prof. John Jonides)
2009-2010	Michigan Center for Advancing Safe Transportation throughout the Lifespan (MCASTL); Cognitive Training as an Intervention to Improve Driving Ability in the Older Adult (#DTRT07-G-0058; $286,810; Role: Co-PI; PI: Prof. Rachael Seidler)

2007-2008	Swiss National Science Foundation (SNF); Transfer effects due to working memory training: why and where are transfer effects observable? (PBBE1-117527; $53,000; *personal fellowship for prospective researchers*)

Awards

2009	Pfizer Research Award (Neurosciences)
2008	Ypsomed Innovation Award (Training Software "BrainTwister")
2007	Dissertation Award by the Humanities Faculty, University of Bern, Switzerland
2006	Fellow at ESCOP (European Society of Cognitive Psychology) Summer School on Human Memory, Bubión-La Alpujarra, Granada (Spain)
2005	Fellow at the McDonnell Summer Institute for Cognitive Neuroscience, Dartmouth College, Hanover, NH (USA)

Publications

Peer-reviewed articles:

Bernard, J. A., Seidler, R. D., Hassevoort, K. M., Benson, B. L., Welsh, R. C., Wiggins, J. L., Jaeggi, S. M., Buschkuehl, M., Monk, C. S., Jonides, J., & Peltier, S. J. (2012). Resting state cortico-cerebellar functional connectivity networks: a comparison of anatomical and self-organizing map approaches. *Frontiers in neuroanatomy, 6*, 31. doi:10.3389/fnana.2012.00031

Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Shah, P. (2012). Cogmed and working memory training—Current challenges and the search for underlying mechanisms. *Journal of Applied Research in Memory and Cognition*, 1(3), 211–213. doi:10.1016/j.jarmac.2012.07.002

Shah, P., Buschkuehl, M., Jaeggi, S., & Jonides, J. (2012). Cognitive training for ADHD: The importance of individual differences. *Journal of Applied Research in Memory and Cognition*, 1(3), 204–205. doi:10.1016/j.jarmac.2012.07.001

Hernandez-Garcia, L., & Buschkuehl, M. (2012). Advances in Longitudinal fMRI Diagnostic Tests. *Expert Opinion on Medical Diagnostics, 6*(4), 1–11. doi:10.1517/17530059.2012.686995

Demiralp, E., Thompson, R. J., Mata, J., Jaeggi, S. M., Buschkuehl, M., Feldman Barrett, L., Ellsworth, P. C., Demiralp, M., Hernandez-Garcia, L., Deldin, P. J., Gotlib, I., & Jonides, J. (in press). Feeling Blue or Turquoise? Emotional Differentiation in Major Depressive Disorder. *Psychological Science*.

Studer-Luethi, B., Jaeggi, S. M., Buschkuehl, M., & Perrig, W. J. (2012). Influence of neuroticism and conscientiousness on working memory training outcome. *Personality and Individual Differences, 53*(1), 44–49. doi:10.1016/j.paid.2012.02.012

Thompson, R. J., Mata, J., Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Gotlib, I. H. (2012). The Everyday Emotional Experience of Adults With Major Depressive Disorder: Examining Emotional Instability, Inertia, and Reactivity. *Journal of abnormal psychology*. doi:10.1037/a0027978

Anguera, J. A., Bernard, J. A., Jaeggi, S. M., Buschkuehl, M., Benson, B. L., Jennett, S., Humfleet, J., et al. (2012). The effects of working memory resource depletion and training on sensorimotor adaptation. *Behavioural Brain Research, 228*(1), 107–115. doi:10.1016/j.bbr.2011.11.040

Buschkuehl, M., Jaeggi, S. M., & Jonides, J. (2012). Neuronal effects following working memory training. *Developmental Cognitive Neuroscience, 2*, Supplement 1, S167–S179. doi:10.1016/j.dcn.2011.10.001

Jaeggi, S. M.*, Buschkuehl, M.*, Jonides, J., & Shah, P. (2011). Short- and long-term benefits of cognitive training. *Proceedings of the National Academy of Sciences of the United States of America, 108(*25), 10081–10086. doi:10.1073/pnas.1103228108
*__shared first authorship__

Loosli, S. V., Buschkuehl, M., Perrig, W. J., & Jaeggi, S. M. (2012). Working memory training improves reading processes in typically developing children. Child Neuropsychology: A *Journal on Normal and Abnormal Development in Childhood and Adolescence, 18*(1), 62–78. doi:10.1080/09297049.2011.575772

Mata, J., Thompson, R. J., Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Gotlib, I. H. (2011). Walk on the bright side: Physical activity and affect in major depressive disorder. *Journal of Abnormal Psychology*. doi:10.1037/a0023533

Thompson, R. J., Mata, J., Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Gotlib, I. H. (2011). Concurrent and prospective relations between attention to emotion and affect intensity: an experience sampling study. *Emotion, 11*(6), 1489–1494. doi:10.1037/a0022822

Gotlib, I. H., Jonides, J., Buschkuehl, M., & Joormann, J. (2011). Memory for affectively valenced and neutral stimuli in depression: evidence from a novel matching task. *Cognition & Emotion, 25*(7), 1246–1254. doi:10.1080/02699931.2010.538374

Jaeggi, S. M., Studer-Luethi, B., Buschkuehl, M., Su, Y., Jonides, J., & Perrig, W. J. (2010). The relationship between n-back performance and matrix reasoning -- implications for training and transfer. *Intelligence*, *38*(6), 625-635. doi:10.1016/j.intell.2010.09.001

Thompson, R. J., Mata, J., Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Gotlib, I. H. (2010). Maladaptive coping, adaptive coping, and depressive symptoms: variations across age and depressive state. *Behaviour Research and Therapy, 48*(6), 459-466. doi:10.1016/j.brat.2010.01.007

Jaeggi, S. M., Buschkuehl, M., Perrig, W. J., & Meier, B. (2010). The concurrent validity of the N-back task as a working memory measure. *Memory, 18*(4), 394-412. doi:10.1080/09658211003702171

Buschkuehl, M., & Jaeggi, S. M. (2010). Improving intelligence: a literature review. *Swiss Medical Weekly, 140*(19-20), 266-272.

Jaeggi, S. M., Schmid, C., Buschkuehl, M., & Perrig, W. J. (2009). Differential age effects in load-dependent memory processing. *Neuropsychology, Development, and Cognition. Section B, Aging, Neuropsychology and Cognition, 16*(1), 80-102. doi:10.1080/13825580802233426

Perrig-Chiello, P., Jaeggi, S. M., Buschkuehl, M., Stähelin, H., & Perrig, W. J. (2009). Personality and health in middle age as predictors for well-being and health in old age. *European Journal of Ageing, 6*(1), 27-37. doi:10.1007/s10433-008-0102-8

Buschkuehl, M., Jaeggi, S. M., Hutchison, S., Perrig-Chiello, P., Däpp, C., Müller, M., Breil, F., et al. (2008). Impact of working memory training on memory performance in old-old adults. *Psychology and Aging, 23*(4), 743-753. doi:10.1037/a0014342

Jaeggi, S. M.*, Buschkuehl, M.*, Jonides, J., & Perrig, W. J. (2008). Improving fluid intelligence with training on working memory. *Proceedings of the National Academy of Sciences of the United States of America*, *105*(19), 6829-33. doi:10.1073/pnas.0801268105
*__shared first authorship__

Jaeggi, S. M., Buschkuehl, M., Etienne, A., Ozdoba, C., Perrig, W. J., & Nirkko, A. C. (2007). On how high performers keep cool brains in situations of cognitive overload. *Cognitive, Affective & Behavioral Neuroscience, 7*(2), 75-89.

Book chapters:

Buschkuehl, M., Jaeggi, S. M., Shah, P., & Jonides, J. (2012). Working Memory Training and Transfer. In R. Subotnik, A. Robinson, C. Callahan & P. Johnson (Eds.), Malleable Minds. Translating Insights from Psychology and Neuroscience to Gifted Education: National Center for Research on Giftedness and Talent, Institute for Education Science.

Jaeggi, S. M., & Buschkuehl, M. (in press). Training Working Memory. In T. P. Alloway (Ed.), *Working Memory: The New Intelligence*. New York, NY: Psychology Press.

Non-peer reviewed article:

Jonides, J., Jaeggi, S. M., Buschkuehl, M., & Shah, P. (2012). Building Better Brains. *Scientific American Mind, 23*(4), 59–63.

Däpp, C., Buschkuehl, M., Perrig, W. J., & Hoppeler, H. (2006). Positive Effekte dank negativem Training. [Positive effect thanks to negative training]. *Mobile, 6*, 44-46.

Theses (monographies):

Buschkuehl, M. (2002). *Einfluss aktiver Bewegung auf ausgewählte kognitive Leistungen [Influence of active movement on selected cognitive tasks]* (Licentiate). University of Bern, Department of Psychology, Bern (Switzerland).

Buschkuehl, M. (2007). *Arbeitsgedächtnistraining: Untersuchungen mit jungen und älteren Erwachsenen [Working memory training: studies with young and older adults]* (Dissertation). University of Bern, Department of Psychology, Bern (Switzerland).

Software (selection):

Buschkuehl, M., Jaeggi, S. M., Kobel, A., & Perrig, W. J. (2007). *BrainTwister – A collection of cognitive training tasks*. Bern (Switzerland): University of Bern.
***Received Ypsomed Innovation Award 2008**

Perrig, W., Etienne, A., Jaeggi, S. M., Blaser, D., Meier, B., Hofer, D., Kling, V., Perrig-Chiello, P., Serafin, D., Ruch, M., Buschkuehl, M. (2006). *Computerunterstützter Gedächtnis-Funktion-Test (C-GFT) [Computerized Memory-Function-Test]*. Bern (Switzerland): University of Bern.

Oral Presentations

Buschkuehl, M. (2011). N-Back Training: Benefits and Mechanisms. Presented at the 1st International Workshop on Cognitive and Working Memory Training, College Park (Maryland, USA).

Buschkuehl, M., & Jaeggi, S. M. (2005). The Impact of Working Memory Training on Selected Cognitive Measures. Presented at the Proceedings of the XIVth meeting of the ESCoP, Leiden (The Netherlands).

Buschkuehl, M., & Jaeggi, S. M. (2008). Arbeitsgedächtnis-Training [Working Memory Training]. Presented at the Science colloquium of the Forensic-Psychiatric Unit of the University of Bern, Bern (Switzerland).

Buschkuehl, M., Hernandez-Garcia, L., Jaeggi, S. M., & Jonides, J. (2010). Impact of Working Memory Training on Brain Activation. Presented at the Functional MRI Symposium, Ann Arbor (Michigan, USA).

Buschkuehl, M., Hutchison, S., Dapp, C., Hoppeler, H., & Perrig, W. J. (2006). The Impact of Eccentric Exercise on Selected Cognitive Measures in the Elderly. Presented at the 11th Annual Congress of the ECSS, Lausanne (Switzerland).

Buschkuehl, M., Jaeggi, S. M., & Perrig, W. J. (2006). Working Memory Training in the Elderly Suggests a Modulation of the Focus of Attention. Presented at the 3rd European Working Memory Symposium, Genova (Italy).

Buschkuehl, M., Jaeggi, S. M., Wyler, H., & Perrig, W. J. (2007). Encoding during Retrieval: Effects in Recognition but not in Free Recall. Presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach (California, USA).

Presentations and Posters at scientific conferences

Bernard, J., Buschkuehl, M., Jaeggi, S. M., Humfleet, J., Jonides, J., & Seidler, R. D. (2010). Does Cognitive Training Improve Dual Task Walking in Older Adults? Presented at the University of Michigan Geriatrics Symposium, Ann Arbor (Michigan, USA).

Buschkuehl, M., Hutchison, S., & Perrig, W. J. (2006). Cognitive Training With Elderly Suggests Brain Plasticity for Higher Mental Processes. Presented at the Joint meeting of the Swiss Society for Neuroscience and the Swiss Society for Neuroradiology, Basel (Switzerland).

Buschkuehl, M., Jaeggi, S. M., & Shah, P. (2010). Transfer Effects of Working Memory Training on School-Relevant Measures. Presented at the 5th Annual IES Research Conference, National Harbor (Maryland, USA).

Buschkuehl, M., Jaeggi, S. M., Berman, M. G., Thummala, K., Behnke, C. E., & Jonides, J. (2009). Investigating the Underlying Cognitive Processes of the N-Back Task: a Regression Study. Presented at the 16th Annual Meeting of the Cognitive Neuroscience Society, San Francisco (California, USA).

Buschkuehl, M., Jaeggi, S. M., Jonides, J., & Shah, P. (2010). Working Memory Training in Typically Developing Children: Interindividual Differences and Transfer. Presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis (Missouri, USA).

Buschkuehl, M., Regard, M., & Heinemann, D. (2003). Influence of Active Movement on Selected Cognitive Tasks. Presented at the Gemeinsame Jahrestagung der Gesellschaft für Neuropsychologie mit der International Neuropsychological Society, Berlin (Germany).

Demiralp, E., Barrett Feldman, L., Thompson, R., Mata, J., Jaeggi, S. M., Buschkuehl, M., Demiralp, M., et al. (2011). Flavors of Emotion in Depression. Presented at the Affectice Science Institute Inauguration Conference, Northeastern University, Boston (Massachusetts, USA).

Demiralp, E., Jaeggi, S. M., Buschkuehl, M., Barrett Feldman, L., Gonzalez, R., Kross, E., Deldin, P. J., et al. (2011). Emotional granularity and rumination in major depressive disorder. Presented at the NIMH Interdisciplinary Behavioral Science Center conference on “How do executive function and emotion interact?,” Boulder (Colorado, USA).

Demiralp, E., Jaeggi, S. M., Buschkuehl, M., Feldman Barrett, L., Demiralp, M., Gonzalez, R., Ellsworth, P., et al. (2011). Dynamics of emotional experience in major depressive disorder. Presented at the Neuroscience of Emotion and Emotion-Related Disorders - The inaugural conference of the Rotman Research Institute and the Kunin-Lunenfeld Applied Research Unit, Toronto (Canada).

Demiralp, E., Kim, H.-S., Adams, K., Jaeggi, S. M., Buschkuehl, M., Berman, M. G., Krpan, K., et al. (2010). Differences in the Organization and Free Recall of Self-Related Information in People with Depression. Presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis (Missouri, USA).

Hernandez-Garcia, L., Buschkuehl, M., Jaeggi, S. M., & Jonides, J. (2010). Longitudinal, pseudo-continuous ASL imaging of perfusion during a working memory task: How does training change the activation pattern? Presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona (Spain).

Hoppeler, Hans, Perrig, W. J., Dapp, C., & Buschkuehl, M. (2006). Chronic eccentric exercise training for the elderly. Presented at the NRP-53 Programme Meeting, Davos (Switzerland).

Jaeggi, S. M., Buschkuehl, M., & Perrig, W. J. (2007). Differential Effects of Emotional Content in Working Memory and Recognition. Presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach (California, USA).

Jaeggi, S. M., Buschkuehl, M., Blaser, D., & Perrig, W. J. (2006a). Working Memory Training Enhances Free Recall and Intelligence. Presented at the Joint meeting of the Swiss Society for Neuroscience and the Swiss Society for Neuroradiology, Basel (Switzerland).

Jaeggi, S. M., Buschkuehl, M., Blaser, D., & Perrig, W. J. (2006b). Transfer Effects Following Working Memory Capacity Training: Improvements in Free Recall and Fluid Intelligence. Presented at the 3rd European Working Memory Symposium, Genova (Italy).

Jaeggi, S. M., Buschkuehl, M., Demiralp, E., Berman, M. G., Deldin, P. J., Kross, E., Gotlib, I. H., et al. (2009). Mind-Wandering and Ruminative Behavior in Major Depression is Mediated by Context: A Combined Laboratory and Experience Sampling Study. Presented at the 23rd Annual Meeting of the Society for Research in Psychopathology, Minneapolis (Minnesota, USA).

Jaeggi, S. M., Buschkuehl, M., Hernandez-Garcia, L., Bernard, J., & Jonides, J. (2010). Neural Correlates of N-back Training – A Pseudo-Continuous Arterial Spin Labeling (pCASL) Study. Presented at the 17th Annual Cognitive Neuroscience Society Meeting, Montreal (Canada).

Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Shah, P. (2011). Working Memory Training in Typically Developing Children and
Children with Attention Deficit Hyperactivity Disorder:
Evidence for Plasticity in Executive Control Processes. Presented at the 18th Annual Meeting of the Cognitive Neuroscience Society, San Francisco (California, USA).

Jaeggi, S. M., Buschkuehl, M., Markes, O., Perrig, W. J., & Koenig, T. (2008). Neural Correlates of Specific Training Effects and Transfer. Presented at the 15th Annual Meeting of the Cognitive Neuroscience Society, San Francisco (California, USA).

Jaeggi, S. M., Buschkuehl, M., Shah, P., & Jonides, J. (2011). Working Memory Training and Transfer to Gf: Evidence for Domain Specificity? Presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle (Washington, USA).

Jaeggi, S. M., Etienne, A., Buschkuehl, M., Ozdoba, C., Schroth, G., Perrig, W. J., & Nirkko, A. C. (2005). The cool brains of high performers in situations of cognitive overload are even cooler: A dual-task investigation with fMRI at the edge of capacity. Presented at the 11th Annual Meeting of the Organization for Human Brain Mapping, Montreal (Canada).

Jaeggi, S. M., Etienne, A., Ozdoba, C., Perrig, W. J., & Nirkko, A. C. (2006). The importance of behavioural measures in interpreting functional data: evidence from a working memory study. Presented at the ESNR 06/ICS 06, Geneva (Switzerland).

Jaeggi, S. M., Meier, B., & Buschkuehl, M. (2005). On the Relationship Between Different Working Memory Measures. Presented at the Proceedings of the XIVth meeting of the ESCoP, Leiden (The Netherlands).

Jaeggi, S. M., Meier, B., Buschkuehl, M., & Perrig, W. J. (2004). Das N-back-Paradigma ist ein adäquates Mass für Arbeitsgedächtniskapazität [The n-back paradigm is an adequate measure for working memory capacity]. Presented at the 46. Tagung experimentell arbeitender Psychologen, Giessen (Germany).

Jaeggi, S. M., Nirkko, A. C., Ozdoba, C., Etienne, A., Buschkuehl, M., Schroth, G., & Perrig, W. J. (2004a). The impact of processing demand on cortical activation assessed with single- and dual-tasks. Presented at the 10th Annual Meeting of the Organization for Human Brain Mapping, Budapest (Hungary).

Jaeggi, S. M., Nirkko, A. C., Ozdoba, C., Etienne, A., Buschkuehl, M., Schroth, G., & Perrig, W. J. (2004b). Load-Dependent Activation Changes in Single- and Dual Tasks: Evidence for Differential Effects in High- and Low-Performing Subjects. Presented at the Summer Institute in Cognitive Neuroscience, Hanover (New Hampshire, USA).

Jaeggi, S. M., Studer-Luethi, B., Buschkuehl, M., Su, Y.-F., Jonides, J., & Perrig, W. J. (2009). Improving Fluid Intelligence – Single N-back Is As Effective As Dual N-back. Presented at the 50th Annual Meeting of the Psychonomic Society, Boston (Massachusetts, USA).

Jonides, J., Jaeggi, S. M., & Buschkuehl, M. (2009). Improving Fluid Intelligence by Training Working Memory. Presented at the Office of Naval Research - Contractor's Meeting, Arlington (Virgina, USA).

Loosli, S. V., Buschkuehl, M., Perrig, W. J., & Jaeggi, S. M. (2008). Working memory training enhances reading in 9-11 year old healthy children. Presented at the Archives Jean Piaget.

18th Advance Course. Cognitive Development, Mechanisms and Constraints, Geneva (Switzerland).

Mata, J., Thompson, R. J., Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Gotlib, I. H. (2009). Does physical activity help "lose the blues"? Presented at the 23rd Annual Meeting of the Society for Research in Psychopathology, Minneapolis (Minnesota, USA).

Studer-Luethi, B., Jaeggi, S. M., Buschkuehl, M., & Perrig, W. J. (2010). The effects of personality on working memory training outcome. Presented at the Clinical neuroscience meeting, Bern (Switzerland).

Thompson, R. J., Mata, J., Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Gotlib, I. H. (2010). Attention to Emotion and Affect Intensity in Depressed and Nondepressed Individuals: An Experience Sampling Study. Presented at the 24th Annual Meeting of the Society for Research in Psychopathology, Seattle (Washington, USA).

Thompson, R. J., Mata, J., Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Gotlib, I. H. (2011). Affective instability: Experiences of depressed and nondepressed individuals. Presented at the 12th Annual Meeting of The Society for Personality and Social Psychology, San Antonio (Texas, USA).

Thompson, R. J., Mata, J., Jaeggi, S. M., Buschkuehl, M., Jonides, J., & Gotlib, I. H. (2010). Nuances in the emotional experiences of depressed and nondepressed individuals. Presented at the 22nd Annual Convention of the Association for Psychological Science, Boston (Massachusetts, USA).

Other activities

Organization of two Seminars ('Weiterbildungskurse') on Computerized Working Memory Training for the 'Schweizerischer Verband für Gedächtnistraining (SVGT)', held at the University of Bern, Switzerland. Faculty: Prof. Perrig, W.J., Dr. Jaeggi, S.M., Dr. Buschkuehl, M. (2007, 2008).

Membership in professional organizations

- Cognitive Neuroscience Society (CNS)
- The Psychonomic Society
- American Psychological Association (APA)

Ad-hoc reviewer activities

British Journal of Sports Medicine; Cognitive Science; Developmental Cognitive Neuroscience; Frontiers in Human Neuroscience; Intelligence; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Proceedings of the National Academy of Sciences of the United States of America; Psychological Science; Psychology and Aging; Psychonomic Bulletin & Review; Psychophysiology; Scandinavian Journal of Psychology

Teaching experience

At the University of Bern

- Design and supervision of several experiments developed for the course '*Experimentelle Übungen*' [Practice of Psychological Experiments] (Bachelor level: 2002, 2006, 2007)
- *Neuroanatomy* (Master level; 2001, 2002, 2005, 2006)
- *Language and Text Comprehension* (Master level: 2003)
- *Learning and Memory* (Master level: 2004)
- *Training, Capacity, and Exceptional Memory* (Master level: 2007)
- Computer aided experimental research with PsyPscope (Master level: 2000)
- Computer aided experimental research with E-Prime (Master level: 2004, 2005, 2006)

At the University of Michigan

- Introduction to E-Prime (at fMRI course: 2010, 2011)

Advised and mentored students

At the University of Bern

- Bachelor: Wyler, H. (2008)
- Licentiate (Masters theses): Blaser, D. (2005), Brauchle, N. (2006), Duss, S. (2006), Hofer, N. (2008), Loosli, S. (2006), Markes, O. (2006), Omlin, Y. (2008), Oelhafen, S. (2008), Passani, S. (2006), Pfammatter, M. (2005), Schachtler, F. (2008), Studer-Luethi, B. (2010)

At the University of Michigan

- Honor's Thesis: Darbor, K. (2010)

Media attention (selection)

Hurley, D. (2012, April 18). Can You Make Yourself Smarter? *The New York Times*. Retrieved from http://www.nytimes.com/2012/04/22/magazine/can-you-make-yourself-smarter.html

Begley, S. (2012, January 1). Buff Your Brain. *Newsweek Magazine*. Retrieved from http://www.thedailybeast.com/newsweek/2012/01/01/buff-your-brain.html

Thean, T. (2011, June 16). How Brain Training Can Boost Intelligence. *Time*. Retrieved from http://healthland.time.com/2011/06/16/how-brain-training-can-boost-intelligence/

Mann, D. (2011, June 15). Brain-Training Games May Give Kids an Achievement Edge. *WebMD*. Retrieved May 1, 2012, from http://children.webmd.com/news/20110613/brain-training-games-may-give-kids-acheivement-edge

Derbyshire, D. (2011, June 14). Brain training computer games "can improve your child"s grades within weeks'. *Mail Online*. Retrieved from http://www.dailymail.co.uk/sciencetech/article-2003155/Brain-training-games-improve-child-s-grades-weeks.html

Healy, M. (2011, June 14). Brain training: Brain training improves intelligence in some children, study says. *Los Angeles Times Articles*. Retrieved from http://articles.latimes.com/2011/jun/14/health/la-he-iq-boost-20110614-1

Dotinga, R. (2011, June 13). Training via Video Game Shown to Boost Kids' Brain Power. *U.S.News*. Retrieved from http://health.usnews.com/health-news/family-health/brain-and-behavior/articles/2011/06/13/training-via-video-game-shown-to-boost-kids-brain-power

Lehrer, J. (2011a, June 11). A Simple Exercise To Boost IQ. *Wired*. Retrieved May 1, 2012, from http://www.wired.com/wiredscience/2011/06/a-simple-exercise-to-boost-iq/

Lehrer, J. (2011b, June 11). Boot Camp for Boosting IQ. *Wall Street Journal*. Retrieved from http://online.wsj.com/article/SB10001424052702304432304576371462612272884.html?KEYWORDS=lehrer

Yong, E. (2011, June 11). Can intelligence be boosted by a simple task? For some…. *Discover Magazine*. Retrieved from http://blogs.discovermagazine.com/notrocketscience/2011/06/13/can-intelligence-be-boosted-by-a-simple-task-for-some/

Gedächtnistraining steigert Intelligenz. (2011, May 20).*20 Minuten*. Switzerland.

Zahner, K. (2009, June 9). Fit im Kopf. *Migros-Zeitung*, (24).

Fernandez, A. (2009, May 13). Can Intelligence Be Trained? Martin Buschkuehl shows how. *SharpBrains*. Retrieved from http://www.sharpbrains.com/blog/2008/05/13/can-intelligence-be-trained-martin-buschkuehl-shows-how/#more-1368

Mossman, K. (2009, April 29). Brain Trainers - Put your cortex through its paces with these software games. *Scientific American Mind*, (4), 32–39.

Wang, S., & Aamodt, S. (2009, March 10). Guest Column: Can We Increase Our Intelligence? *The New York Times: Opinionator*. Retrieved from http://opinionator.blogs.nytimes.com/2009/03/10/guest-column-can-we-increase-our-intelligence/

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