

Personal Details

Name	Tabea Schuler
Position	Clinical Research Associate Pediatric Rehab Research Group Human Movement Scientist HSR (highly specialized rehabilitation)
Academic Position	MSc ETH
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Graduate

- 2003-08 BSc ETH in Human Movement Sciences, ETH Zurich, Switzerland
- 2008 Diploma in medical training therapy (MTT)
- 2008-09 MSc ETH in Human Movement Sciences, Major in Motor Learning & Control, ETH Zurich

Scientific Interests

- Physiology underlying locomotion
- Motor learning in children with different movement disorders

Memberships

- Swiss Society of Sports Therapy (SVGS)
- Holding Organization of Alumni Human Movement Scientists

Posters/ Abstracts and Publications

Abstracts & Poster presentations

- **T. Schuler**, A. Meyer-Heim. PeLoBASE: Online accessible research database for the pediatric Lokomat (2010).
Presented at World Congress of Neurorehabilitation (WCNR) 2010, Vienna, Austria.
- **T. Schuler**, R. Müller, K. Brüttsch, A. Meyer-Heim. Virtual Realities as motivational tools for the gait training in the pediatric Lokomat (2009).
Poster Prize 2009 Children's University Hospital Zurich.
Presented at International Neuro-Rehabilitation Symposium (INRS) 2009, Zurich;
Neurorehabilitation Symposium 2009, Zurich; Jahrestagung der Schweizerischen Gesellschaft für Neurorehabilitation (SGNR), Humaine Klinik Zihlschlacht; World Congress of Neurorehabilitation (WCNR) 2010, Vienna, Austria.
- K. Brüttsch, **T. Schuler**, A. König, L. Zimmerli, S. Köneke, L. Lünenburger, R. Riener, L. Jäncke, A. Meyer-Heim. Virtual Reality Soccer Scenario to Enhance Active Participation of Lokomat Training in Children (2008).
Presented at Neurorehabilitation Jahrestagung 2008, Vienna, Austria; International Neuro-Rehabilitation Symposium (INRS) 2009, Zurich.
- S. Edler, A. Meyer-Heim, **T. Schuler**, R. Müller. Comparison of leg muscle activity in Lokomat walking, treadmill walking and level walking in children.
Presented at Congress of the International Society of Electrophysiology and Kinesiology (ISEK) 2010, Aalborg, Denmark.
- E. Keller, **T. Schuler**, R. Müller, A. Meyer-Heim. Immediate Effects of a single Robotic Assisted Gait Training on Balance Skills in Children with Cerebral Palsy.
Presented at ZNZ Symposium (2010) Zurich; BBS Congress "get together" (2010) Basel.

Publications

- **Tabea Schuler**, Karin Brüttsch, Roland Müller, Andreas Meyer-Heim. Virtual Realities as Motivational Tools for Robotic Assisted Gait Training in Children: A Surface Electromyography Study. Submitted, June 2010
- Karin Brüttsch, **Tabea Schuler**, Alexander König, Lukas Zimmerli, Susan Mérillat (-Koenek), Lars Lünenburger, Robert Riener, Lutz Jäncke, Andreas Meyer-Heim. Influence of Virtual Reality Soccer Game on Walking Performance in Robotic-Assisted Gait Training for Children. Published 2010, Journal of NeuroEngineering and Rehabilitation
- Borggraefe, Ingo; Klaiber, Mirjam; **Schuler, Tabea**; Warken, Birgit; Schroeder, Sebastian Alexander; Heinen, Florian; Meyer-Heim, Andreas. Safety of robotic-assisted treadmill therapy in children and adolescents with gait impairment: a bi-center survey. Published 2010, Journal of Developmental Neurorehabilitation