Juergen Konczak

Professor, Biomechanics and Neuromotor Control

Degrees

1998 Habilitation, Psychology, Universität Düsseldorf, Germany
1991 Ph.D., Kinesiology, University of Wisconsin-Madison, U.S.A.
1985 M.S., Sport & Exercise Science, University of Idaho, Moscow, U.S.A.
1984 B.A., Philosophy, Sport Science, Universität Münster, Germany

Appointments

Director, Human Sensorimotor Control Laboratory
Director, Center for Clinical Movement Science
Faculty, Center for Cognitive Sciences
Faculty, Graduate Program in Neuroscience

Adjunct Professor of Neurology

Teaching

Courses in biomechanics, movement neuroscience, motor control and motor learning.

Research interest

Sensorimotor dysfunction in neurological disease, robotic rehabiliation, mechanisms of motor learning, motor development in infancy and childhood.

Research activity

Dr. Konczak's research focuses on the neurophysiology and biomechanics of human motor function in clinical and special populations. He has published extensively in the area of neuromotor control, motor development and motor dysfunction due to neurological diseases such as ataxia, Parkinson's disease and dystonia. His research has been funded by the *U.S. National Institutes of Health*, the *U.S. National Science Foundation*, the *German Science Foundation* and the *European Commission*.

For details on his research output and his publications, visit:

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Selected publications

1. **For a full list of publications visit: hsc.umn.edu**
2. Avanzino L., Cherif A., Crisafulli O., Carbone F., Zenzeri J., Morasso P., Abbruzzese G., Pelosin E., **Konczak J.** (2020). Tactile and proprioceptive dysfunction differentiates cervical dystonia with and without tremor. *Neurology*, doi: https://doi.org/10.1212/WNL.0000000000008916
3. Tseng Y., Holst-Wolf J., Tsai C., Chen F, **Konczak J.** (2019), Haptic perception is altered in children with developmental coordination disorder, *Neuropsychologia*, Volume 127, 2019, Pages 29-34, ISSN 0028-3932, https://doi.org/10.1016/j.neuropsychologia.2019.02.004.
4. Cuppone AV, Semprini M, **Konczak J.** (2018). Consolidation of human somatosensory memory during motor learning. *Behav Brain Res*, 22018 Jul 16;347:184-192. doi: 10.1016/j.bbr.2018.03.013.
5. Cuppone AV., V Squeri, Semprini M., Masia L., **Konczak J.** (2016). Robot-assisted proprioceptive training with added vibro-tactile feedback enhances somatosensory and motor performance. *PloS one* 11 (10), e0164511.
6. Aman J.E., Elangovan E., Yeh I-L., **Konczak J.** (2015). The effectiveness of proprioceptive training for improving motor function: a systematic review. *Frontiers in Human Neuroscience*. doi: 10.3389/fnhum.2014.01075.