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Postdoctoral Researcher in Persuasive Technology for Stroke Rehabilitation
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Appointments:

- Postdoctoral Researcher, Department of Rehabilitation Medicine, Erasmus MC, Rotterdam, the Netherlands, 2017-present.
- Researcher, Department of Orthopaedics, University Medical Center Groningen, University of Groningen, Groningen, the Netherlands, 2016-2017.
- Research scientist, Personal Health Department, Philips Research Europe, Eindhoven, the Netherlands, 2015-2016.
- PhD candidate, Center for Human Movement Sciences, University Medical Center Groningen, University of Groningen, Groningen, the Netherlands, 2010-2015.

Education & training

2015 Certificate from University of Groningen for completion of PhD training.

2010 MSc. in Human Movement Sciences, University of Groningen, the Netherlands.

Scientific publications

PhD dissertation

Regterschot GRH. The power of standing up: Development and clinical evaluation of a sensor-based method for the estimation of power during sit-to-stand in older adults. Groningen: University of Groningen, 2015.

Research articles in peer-reviewed scientific journals

1. **Regterschot GRH**, Zhang W, Baldus H, Stevens M, Zijlstra W. Accuracy and concurrent validity of a sensor-based analysis of sit-to-stand movements in older adults. Gait Posture. 2016;45:198-203.

2. Douma KW, **Regterschot GRH**, Krijnen WP, Slager GE, van der Schans CP, Zijlstra W. Reliability of the Q Force; a mobile instrument for measuring isometric quadriceps muscle strength. BMC Sports Sci Med Rehabil. 2016;8:4.

3. **Regterschot GRH**, Morat T, Folkersma M, Zijlstra W. The application of strength and power related field tests in older adults: criteria, current status and a future perspective. Eur Rev Aging Phys Act. 2015;12:2.

4. Zhang W, **Regterschot GRH**, Geraedts H, Baldus H, Zijlstra W. Chair Rise Peak Power in Daily Life Measured with a Pendant Sensor Associates with Mobility,

Limitation in Activities and Frailty in Old People. IEEE J Biomed Health Inform. 2015.

5. **Regterschot GRH**, Zhang W, Baldus H, Stevens M, Zijlstra W. Sensor-based monitoring of sit-to-stand performance is indicative of objective and self-reported aspects of functional status in older adults. Gait Posture. 2015;41(4):935-40.

6. Zhang W, **Regterschot GRH**, Wahle F, Geraedts H, Baldus H, Zijlstra W. Chair rise transfer detection and analysis using a pendant sensor: an algorithm for fall risk assessment in older people. Conf Proc IEEE Eng Med Biol Soc. 2014;2014:1830-4.

7. Fuermaier AB, Tucha L, Koerts J, van den Bos M, **Regterschot GRH**, Zeinstra EB, van Heuvelen MJ, van der Zee EA, Lange KW, Tucha O. Whole-body vibration improves cognitive functions of an adult with ADHD. Atten Defic Hyperact Disord. 2014;6(3):211-20.

8. **Regterschot GRH**, Van Heuvelen MJ, Zeinstra EB, Fuermaier AB, Tucha L, Koerts J, Tucha O, Van Der Zee EA. Whole body vibration improves cognition in healthy young adults. PLoS One. 2014;9(6):e100506.

9. Zhang W, **Regterschot GRH**, Schaabova H, Baldus H, Zijlstra W. Test-retest reliability of a pendant-worn sensor device in measuring chair rise performance in older persons. Sensors (Basel). 2014;14(5):8705-17.

10. **Regterschot GRH**, Zhang W, Baldus H, Stevens M, Zijlstra W. Test-retest reliability of sensor-based sit-to-stand measures in young and older adults. Gait Posture. 2014;40(1):220-4.

11. **Regterschot GRH**, Folkersma M, Zhang W, Baldus H, Stevens M, Zijlstra W. Sensitivity of sensor-based sit-to-stand peak power to the effects of training leg strength, leg power and balance in older adults. Gait Posture. 2014;39(1):303-7.