Personal information

First and last name: Jacqueline Romkes
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Employment

Present

Human Movement Scientist at the Laboratory for Movement Analysis University of Basel Children's Hospital, CH

Responsibilities:

- Initiate and perform clinical research studies from concept to publication
- Literature research for future and novel research projects
- Cooperate with other scientists in joint clinical research projects
- Lecture, supervise students (mainly at Master level)
- Present at national and international conferences/meetings/workshop
- Programming in MATLAB Software for data analysis
- Performing clinical gait analyses in patients
- Write SOPs and laboratory guidelines
- Instruct staff members
- Implement new work processes and methods into the clinical routine

Past:

Interim Study Coordinator for the Master of Science program in Biomedical Engineering, University of Basel, CH

Technical lead and Human Movement Scientist at the Laboratory for Movement Analysis, University of Basel Children's Hospital, CH

Research and teaching assistant, Faculty of Human Movement Sciences, VU University Amsterdam, NL

Education

Academic teaching degree, "Dozierendenprogramm Hochschuldidaktik", University of Basel, CH

Doctorate in Biomedical Sciences
Faculty of Kinesiology and Rehabilitation Sciences, Catholic University of Leuven, B
PhD thesis: "Gait in hemiplegic cerebral palsy: Effects of ankle foot orthoses"
https://lirias.kuleuven.be/handle/1979/1884

Mentoring program "Women into industry"
A mentoring program for PhD students of the University of Basel and Novartis

Master of Science in Human Movement Sciences
VU University Amsterdam, NL

- *Master thesis I (exercise physiology):* "Determination of mechanical efficiency in eight conditions during arm crank ergometry", Faculty of Human Movement Sciences, VU University Amsterdam, NL
- *Master thesis II (functional anatomy):* "Relationship between passive joint moment and joint rotation in the knee", Internship at the Biomechanics department, Human Performance Laboratory, University of Calgary, CA
- *Literature review:* "The biomechanics of running: Can running shoes influence the development of overload injuries?", Faculty of Human Movement Sciences, VU University Amsterdam, NL

Courses

- Leading with Trust ("Führen über Vertrauen"), Advanced studies, University of Basel, CH
- Clinical Research involving Children: Challenges and Opportunities. Clinical Trial Unit Basel, CH
- Good Clinical Practice: Inspections, Advanced studies, University of Basel, CH
- Science Communication Workshop by Vivian Siegel, Friedrich Miescher Institute for Biomedical Research, Basel, CH
- Clinical Investigator Course (Modules 1-3), Clinical Trial Unit Basel, CH
- Scientific Funding („Drittmittelbeschaffung für eigene Forschungsprojekte und/oder Stipendien"), University of Basel, CH
- Basic course GCP-Good Clinical Practice, Ethical Committee Basel, CH
- MATLAB Fundamentals and Programming Techniques ML01, The MathWorks GmbH, Gümligen, CH

Reviewer

- Ad hoc reviewer „Gait and Posture", Elsevier
- Ad hoc reviewer „Clinical Biomechanics", Elsevier

Languages

Dutch (Native), English (fluent), German (fluent)

Computer skills

Windows, MATLAB, MS Office, Mendeley, EndNote, Adobe Photoshop CS & Elements, VICON Workstation and Nexus

List of original publications, last 5 years

For a complete list via Pubmed:
https://www.ncbi.nlm.nih.gov/pubmed?term=(Romkes%2C%20Jacqueline%5BAuthor%20-%20Full%5D)

Bangerter C, **Romkes J**, Lorenzetti S, Krieg AH, Hasler CC, Brunner R, Schmid S (2019). What are the biomechanical consequences of a structural leg length discrepancy on the adolescent spine during walking? Gait&Posture 68: 506-513. DOI: 10.1016/j.gaitpost.2018.12.040.

Haberfehlner H, Jaspers RT, Rutz E, Harlaar J, van der Sluijs JA, Witbreuk MM, van Hutten K, **Romkes J**, Freslier M, Brunner R, Becher JG, Maas H, Buizer AI (2018). Outcome of medial hamstring lengthening in children with spastic paresis: A biomechanical and morphological observational study. PLoS One 13(2):e0192573. DOI: 10.1371/journal.pone.0192573.

Bracht-Schweizer K, Freslier M, Krapf S; **Romkes J** (2017). Visual targeting one step before plates has no effect on gait parameters in orthopaedic patients during level walking. Gait&Posture 58: 13-18. DOI: 10.1016/j.gaitpost.2017.07.031.

Romkes J, Bracht-Schweizer K (2017). The effects of walking speed on upper body kinematics during gait in healthy subjects. Gait&Posture 54: 304-310. DOI: 10.1016/j.gaitpost.2017.03.025.

Angelico F, Freslier M, **Romkes J**, Brunner R, Schmid S (2017). Upper extremity motion during gait in adolescents with structural leg length discrepancy-An exploratory study. Gait&Posture 53: 115-120. DOI: 10.1016/j.gaitpost.2017.01.003.

Schmid S, Bruhin B, Ignasiak D, **Romkes J**, Taylor WR, Ferguson SJ, Brunner R, Lorenzetti S (2017). Spinal kinematics during gait in healthy individuals across different age groups. Human Movement Science 54: 73-81. DOI: 10.1016/j.humov.2017.04.001

Haberfehlner H, Jaspers RT, Rutz E, Becher JG, Harlaar J, Van der Sluijs JA, Witbreuk MM, **Romkes J**, Freslier M, Brunner R, Maas H, Buizer AI (2016). Knee Moment-Angle Characteristics and Semitendinosus Muscle Morphology in Children with Spastic Paresis Selected for Medial Hamstring Lengthening. PLoS One 11(11): e0166401. DOI:10.1371/journal.pone.0166401.

Schmid S, **Romkes J**, Taylor WR, Lorenzetti S, Brunner R (2016). Orthotic correction of lower limb function during gait does not immediately influence spinal kinematics in spastic hemiplegic cerebral palsy. Gait&Posture 49:457-462. DOI: 10.1016/j.gaitpost.2016.08.013.

Schmid S, Studer D, Hasler CC, **Romkes J**, Taylor WR, Lorenzetti S, Brunner R (2016). Quantifying spinal gait kinematics using an enhanced optical motion capture approach in adolescent idiopathic scoliosis. Gait&Posture 44:231-237. DOI: 10.1016/j.gaitpost.2015.12.036.

Suica Z, **Romkes J**, Tal A, Maguire C (2016). Walking with a four wheeled walker (rollator) significantly reduces EMG lower-limb muscle activity in healthy subjects. Journal of bodywork and movement therapies 20(1):65-73. DOI: 10.1016/j.jbmt.2015.06.002.

Maguire C, Sieben JM, Scheidhauer H, **Romkes J**, Suica Z, De Bie RA (2016). The effect of crutches, an orthosis TheraTogs, and no walking aids on the recovery of gait in a patient with delayed healing post hip fracture: A case report. Physiother Theory Pract 32(1):69-81. DOI: 10.3109/09593985.2015.1075640.

Romkes J (2015). Berücksichtigung von Orthesen und/oder Schuhen bei der Ganganalyse. Orthopädie Technik 2015(12):32-7

Schmid S, Studer D, Hasler CC, **Romkes J**, Taylor WR, Brunner R, Lorenzetti S (2015). Using skin markers for spinal curvature quantification in main thoracic adolescent idiopathic scoliosis: An explorative radiographic study. PLoS ONE 10(8): e0135689. DOI: 10.1371/journal.pone.0135689.

Romkes J, Schweizer K (2015). Immediate effects of unilateral restricted ankle motion on gait kinematics in healthy subjects. Gait&Posture 41(3): 835-840. DOI: 10.1016/j.gaitpost.2015.02.015.

Meyer U, Ernst D, Schott S, Riera C, Hattendorf J, **Romkes J**, Granacher U, Göpfert B, Kriemler S (2015). Validation of two accelerometers to determine mechanical loading of physical activities in children. Journal of Sports Sciences 33(16):1702-9. DOI: 10.1080/02640414.2015.1004638.

Schweizer K, Brunner R, **Romkes J** (2014). Upper body movements in children with hemiplegic cerebral palsy walking with and without an ankle-foot orthosis. Clinical Biomechanics 29(4): 387-394. DOI: 10.1016/j.clinbiomech.2014.02.005.

Galli M, Cimolin V, Albertini G, Piccinini L, Turconi AC, **Romkes J**, Brunner R (2014). Kinematic analysis of upper limb during walking in diplegic children with cerebral palsy. European Journal of Paediatric Neurology 18(2): 134-139. DOI: 10.1016/j.ejpn.2013.09.007.

Schweizer K, **Romkes J**, Coslovsky M, Brunner R (2014). The influence of muscle strength on the gait profile score (GPS) across different patients. Gait&Posture 39(1): 80-85. DOI: 10.1016/j.gaitpost.2013.06.001.