Adam Rozumalski, Ph.D.

EMPLOYMENT

Director of Operations, Gillette Children's Specialty Healthcare James R Gage Center for Gait and Motion Analysis, St Paul, MN, 2018– present

Research Engineer, Gillette Children's Specialty Healthcare James R Gage Center for Gait and Motion Analysis, St Paul, MN, 2002 – 2018

EDUCATION

Doctor of Philosophy, Biomedical Engineering, University of Minnesota, Minneapolis, MN, 2016

Thesis – "Development and testing of decision support tools for gait analysis"

SELECTED PUBLICATIONS

Rozumalski, A., Steele, K.M., Schwartz, M.H., "Muscle synergies do not change in typically developing children walking on a treadmill at multiple slopes and speeds" *J Biomechanics*, 2017 Vol 7 (64), 112-119

Schwartz, M.H., Rozumalski, A., Steele, K.M., "Dynamic motor control is associated with treatment outcomes for children with cerebral palsy" *Developmental Medicine & Child Neurology*, 2016, Vol 58 (11), 1139-1145

Rozumalski, A., Novacheck, T.F., Griffith, C., Walt, K., Schwartz, M.H., "Treadmill vs. Overground Running Gait During Childhood: A Qualitative and Quantitative Analysis" *Gait & Posture*, 2015, Vol 41, 613-618

Schwartz, M.H., Rozumalski, A., Novacheck, T.F., "Femoral Derotational Osteotomy: Surgical Indications and Outcomes in Children with Cerebral Palsy" *Gait & Posture*, 2014, Vol 39 (2), 778-783.

Schwartz, M.H., Rozumalski, A., Truong, W.H., Novacheck, T.F., "Predicting the outcome of intramuscular psoas lengthening in children with cerebral palsy using preoperative gait data and the random forest algorithm" *Gait & Posture*, 2013, Vol 37 (4), 473-479

Rozumalski, A., Schwartz, M.H., "Crouch Gait Patterns Defined Using K-Means Cluster Analysis are Related to Underlying Clinical Pathology" *Gait & Posture*, 2009, Vol 30 (2), 155-160

Schwartz, M.H., A. Rozumalski, "The Gait Deviation Index: A New Comprehensive Index of Gait Pathology" *Gait & Posture*, 2008, Vol 28 (3), 351-357

Schwartz, M.H., A. Rozumalski, "A new method for estimating joint parameters from motion data" *J Biomechanics*, 2005, Vol 38 (1), 107-116