

Dr Max Feltham PhD

Research Fellow

Primary Care Clinical Sciences

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About

Max Feltham is a Research Fellow in Primary Care & Clinical Sciences. He is responsible for the day-to-day management of RCT and experimental studies and for managing other staff working on the project.

Qualifications

- PhD in Perceptual Motor Control, VU University Amsterdam, 2009
- PhD in Neural and Visual Control of Human Movement, Manchester Metropolitan University, 2009
- MSc in Human Movement Sciences, VU University Amsterdam, 2005

Biography

Max was awarded a MSc. (2005) in Human Movement Science, with a major in Ergonomics from the VU University Amsterdam, The Netherlands. As part of his MSc. degree he spent six months at the Human Neurology Unit, University of Queensland, Australia. In 2009 he received a Ph.D. in Neural and Visual Control of Human Movement from the Manchester Metropolitan University, United Kingdom working at the Institute for Biomedical Research into Human Movement and Health. Later in that same year he also successfully defended his doctorate thesis entitled "The 'mirror box' illusion: Manipulation of visual information during bimanual coordination in children with and without spastic hemiparetic cerebral palsy" at the VU University Amsterdam, The Netherlands. He then worked at Oxford Brookes University in the Movement Science Group to investigate the effect of exercise programmes on the cardiovascular system in people with multiple sclerosis and to develop a measurement tool to monitor gait patterns in people with a long-term neurodegenerative disease. Max joined the Primary Care & Clinical Sciences' team in August 2011 as a Research Fellow.

Research

Max is a committed human movement scientist with expertise in conducting fundamental and applied research in typical and clinical populations. He has an interest in kinematical, biomechanical and electromyographic measuring techniques.

Currently, Max is responsible for the day-to-day management of RCT and experimental studies and for managing other staff working on the project at the department of Primary Care & Clinical Studies.

Publications

Feltham, M.G., Collett, J., Izadi, H., Wade, D.T., Morris, M.G., Meaney, A.J., Howells K., Sackley, C., Dawes, H. (in preparation), Attenuated heart rate response in people with multiple sclerosis was absent after participation in exercise programs.

Esser, P., Dawes, H., Collett, J., Feltham, M.G., Howells, K., Sheridan, B. (in preparation). Validity and inter-rater reliability of Inertial Gait Measurements in Parkinson's Disease: A short study.

Smorenburg, A.R.P., Ledebt, A., Feltham, M.G., Deconinck, F.J.A., Savelsbergh, G.J.P. (in press), Mirror visual feedback of the impaired limb results in increased neuromuscular activity in children with spastic hemiparetic cerebral palsy. *Experimental Brain Research*.

Esser, P., Dawes, H., Collett, J., Feltham, M.G., Howells, K. (in press), Assessment of spatio-temporal gait parameters using inertial measurement units in neurological populations. *Gait & Posture*.

Feltham, M.G., Ledebt, A., Deconinck, F.J.A., Savelsbergh, G.J.P. (2010), The 'mirror box' illusion: Effect of visual information on neuromuscular activation during bimanual coordination in children with spastic hemiparetic cerebral palsy. *Research in Developmental Disabilities*, 31: 1525-1535.

Feltham, M.G., Ledebt, A., Deconinck, F.J.A., & Savelsbergh, G.J.P. (2010), Assessment of neuromuscular activation of the upper limbs in children with spastic hemiparetic cerebral palsy during a dynamic task. *Journal of Electromyography and Kinesiology*, 20: 448-456.

Feltham, M.G., Ledebt, A., Bennett, S.J., Deconinck, F.J.A., Verheul, M.G.H., Savelsbergh, G.J.P. (2010). The 'mirror box' illusion: Effect on visual information on bimanual coordination in children with spastic hemiparetic cerebral palsy. *Motor Control*, 14: 68-82.

Feltham, M.G., Van Dieën, J.H., Coppeters, M.W., Hodges, P.W. (2006). Changes in joint stability with muscle contraction measured from transmission of mechanical vibration. *Journal of Biomechanics*, 39: 2850-2856

