

## **Biography**

Carole Fortin, PhD, MSc, PT (pht)



Carole Fortin graduated in physiotherapy from School of rehabilitation of Université de Montréal. She worked as a clinician physiotherapist at Centre de readaptation Marie Enfant of CHU Sainte-Justine. She developed expertise in the evaluation and treatment of children and adolescents with idiopathic scoliosis and other neurological disorders (head injury, cerebral palsy, etc). She completed a M.Sc. (gait analysis in idiopathic scoliosis) in Biomedical Sciences (rehabilitation option) at Université de Montréal in 2004 and a Ph.D. (validation of a quantitative clinical tool to assess posture) in Biomedical Sciences at Université de Montréal in 2010. She did a postdoctoral fellowship in neuroscience (cortical mechanisms of posture-movement control) at CNRS/Université Aix Marseille (France) in 2010-2012. As clinical training specific to scoliosis, she is certified in global postural re-education (basic course in 1991, GPR specific to scoliosis in 1996, 2006 and in 2016 with certification for teaching GPR specific to scoliosis), Schroth according to the BSPTS principles (2014) and Scientific Exercise Approach to Scoliosis (SEAS, 2020). She is associate professor at the School of Rehabilitation of Université de Montréal and researcher at the Research Centre of CHU-Sainte-Justine. Her research focuses on the understanding of biomechanical and neurophysiological mechanisms associated with posture, balance and movement control using musculoskeletal ultrasound imaging, EMG and electroencephalography in idiopathic scoliosis. Her work also aims at developing evidence-based therapeutic intervention models in physiotherapy in idiopathic scoliosis and in other neuromusculoskeletal pediatric conditions.