

Dr. Julie McCredden PhD is a cognitive science researcher and educational designer. She received a BSc (mathematics and psychology double major, physics minor) from The University of Queensland (UQ) in the 1980's. Then she did her honours training and research in human perception (visual illusions and psychophysics) at the UQ and the Queensland Institute of Technology (QIT). She then worked in research into cognitive development and human reasoning at the UQ throughout the 1990's. Dr. McCredden received her PhD in cognitive science (investigating neural network models of human reasoning) in 2001 from the UQ. Since that time, she has worked in both applied and theoretical settings at UQ and Griffith University, including investigating the limits to human working memory, exploring methods for helping engineering students to grasp complex concepts, and helping to introduce new technologies and pedagogies into university courses. It was through this latter experience that Dr. McCredden became aware of the discrepancy between the promise and the delivery of technology within educational settings, and of the underlying health risks of the ubiquitous roll out of untested new technologies across university campuses. Dr. McCredden's current research interest is the effects of EMR on cognitive processes in children and adults. She is also working towards a Masters of Counselling, with an aim to combining environmental science, neuroscience and traditional psychotherapies so as to develop a holistic approach to treating adults and children with environmental sensitivities.