

# WMIER RESEARCH TALK



## Integration of Digital Technology in Teaching & Learning Dr Julie Mueller, Wilfrid Laurier University, Waterloo Ontario, Canada

Early research examining the integration of digital technology in learning and teaching from pre-school to post-secondary contexts, addressed the barriers and supports to using technology, resulting in the creation of frameworks for teacher knowledge, such as TPACK (Technological Pedagogical Content Knowledge); and, stage theories of integration, such as SAMR (Substitution, Augmentation, Modification, Redefinition). More recent research addresses the reciprocal relationship that may exist between the implementation of technology and changes in pedagogy and learning. A transformational shift in learning technologies has made demands on pedagogy to provide authentic, learner-centred instruction that allows the learner to take control of their learning-enhanced with digital technology and social media. Our current research is exploring the impact of digital technology on both student learning and teacher pedagogy. Findings from mixed research methods, including surveys, interviews and video observations, will be presented from contexts including elementary to graduate level classes.



Dr. Mueller is an Associate Professor in the Faculty of Education, teaching in both the pre-service and graduate programs in the fields of Learning and Child Development, and Health and Physical Education. Julie's nationally-funded research over the past decade has investigated the integration of computers and mobile technology across all levels of education. She has presented findings from this research at both National and International conferences and has published book chapters and empirical research articles related to the integration of digital technology from elementary to higher education. Recent work examining iPads specifically, has culminated in an iPad Implementation Guide for teachers. Dr. Mueller has also been an invited guest on the subject of digital technology and education on radio, TV, and written news media. Julie is also an active participant in professional learning circles through a variety of social media outlets.

**Where: TT1.05**

**When: Tues 24 November 15**

**Time: 10-11am**

This talk is a brief presentation of an evolving research program examining the integration of technology from computers, to mobile technology and social media. Research findings and broad conclusions leading to specific questions will be shared and discussed in an interactive approach to knowledge construction.

**RSVP to [dryder@waikato.ac.nz](mailto:dryder@waikato.ac.nz)**

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