



The LEAD Graduate School & Research Network at the University of Tübingen invites you to attend the lecture  
by

**Dr. Roberto Martinez-Maldonado**

Senior Lecturer of Learning Analytics and Human-Computer Interaction in the Faculty of Information Technologies at Monash University, Melbourne.

**“Collaboration Analytics through Multimodal Data Storytelling”**

**Wednesday, July 7<sup>th</sup>, 2021 at 09.00am (MESZ)**

**Zoomlink:** Please contact us via E-Mail if you would like to attend the lecture and we are happy to provide you with the zoom link: [coordination@lead.uni-tuebingen.de](mailto:coordination@lead.uni-tuebingen.de)

**Abstract:**

This presentation will showcase a series of studies aimed at making nursing activity in clinical simulations more visible. We have been co-designing Data Stories and Multimodal Learning Analytics (MMLA) solutions with nursing students and educators with the purpose of supporting teamwork and learning. These MMLA solutions involve the deployment of sensing technologies into simulated clinical spaces to capture traces of activity that can serve as evidence for reflection during the clinical debrief. Supporting nurses develop critical thinking and effective clinical skills is the ultimate goal of this research program. We are aiming at providing automated feedback to healthcare students and facilitators in a way the data can help them tell a more comprehensive story as a result of their clinical simulations and identify areas that need further development.

**Biography:**

Dr. Roberto Martinez-Maldonado is a Senior Lecturer of Learning Analytics and Human-Computer Interaction in the Faculty of Information Technologies at Monash University, Melbourne. He is also a Jacobs Foundation research fellow. His research aims to co-create strategies and enabling technologies with educational stakeholders to support teaching and learning across physical and digital spaces. His developments are particularly focused on creating data-intensive solutions that enable learners and educators to interact with artificial intelligence outputs and data visualisations meaningfully.

**Recent Work:**

- [Human-centred Design Principles for Actionable Learning Analytics 2021](#)
- [Modelling Spatial Behaviours in Clinical Simulations using ENA LAK'21](#)
- [From Data to Insights: A Layered Storytelling Approach for Multimodal Learning Analytics CHI'20](#)

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