

## Dr Kristin McLeod

Post-doctoral research fellow in the Cardiac Modelling Department at Simula Research Laboratory (Norway).

30 March, 2015 at 2pm, FMHS 501-110

*Computational Cardiac Modelling @ Simula*



The CaMo (Computational Cardiac Modeling) department at Simula is an integrated team of researchers working collaboratively with both experimentalists and clinicians to address current challenges in cardiology through Simula's partnership in the Centre for Cardiologicial Innovation (CCI). The multifarious backgrounds of CaMo member scientists, a particular strength of the Group, enables focus on both development of state-of-the-art heart simulation tools and the targeted application of these tools to gain mechanistic insight into diverse biophysical cardiac phenomena: our work ranges from investigation of subcellular calcium ion channel phenomena to organ-level analysis of the ischemic heart. I will present a brief overview of the ongoing research projects within the CaMo department followed by a presentation of my current work in modelling and analysis of Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC). The talk on modelling in ARVC will focus on studying structural abnormalities in relation to clinical symptoms to provide further information to aid in diagnosis and therapy planning.