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Quantitative and localized spectroscopy for non-invasive bilirubinometry in neonates

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Curriculum vitae

Nienke Bosschaart was born on April 17th 1984 in Grootebroek, The Netherlands. After finishing the Gymnasium at the Martinuscollege in Grootebroek, she moved to Enschede (The Netherlands) to study Biomedical Engineering at the University of Twente. She obtained her Bachelor degree in 2005, which included a research thesis on *Photoacoustic imaging of venous valves in superficial veins*. During her Master education in Biomedical Engineering, she went to the University of L'Aquila (Italy) for three months to study muscle oxygenation with near-infrared spectroscopy. She conducted part of the research for her master graduation thesis on *Combining Raman spectroscopy and optical coherence tomography for the non-invasive evaluation of skin cancer* at Vanderbilt University (Nashville TN, USA) and graduated in November 2007. In December 2007, she started her PhD at the Academic Medical Center of the University of Amsterdam, which resulted in this thesis. For her PhD work, she received the Simon Stevin Leerling award 2010.