

Curriculum Vitae

Personal

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Professional Career

2013 – present	Scientific Group Leader, Empa St. Gallen, Laboratory for Protection and Physiology
2012 – 2013	Scientist, EMPA St. Gallen, Laboratory for Protection and Physiology
2011 - 2012	Post Doc EMPA St. Gallen, Laboratory for Protection and Physiology
2009 - 2011	Post Doc, ETH Zurich, Human Movement Sciences, Exercise Physiology
2010 – 2011	Olivierbernhard Coaching, Heiden: consulting & coaching in sports and exercise
2007 – 2011	Exersciences GmbH, Zurich: advanced education, presentations, medical assessment of athletic performance, consulting in exercise
2005 – 2007	Activ Fitness AG, Zurich: advanced education for employees in the fitness sector
2005 – 2006	Fontana Health Consulting, Zurich: medical assessment of athletic performance, consulting & coaching in sports and exercise

Education

2012	Certified Project Management Associate (IPMA Level D®)
2005 - 2009	Ph.D. thesis, Department of Biology, ETH Zurich / Institute of Human Movement Sciences ("Aspects of endurance exercise performance")
2002 - 2005	Studies of human movement sciences at ETH Zurich
2000 - 2002	Studies of environmental sciences at ETH Zurich

Field of activities

Research in modelling and simulation of thermal interactions between the human body, clothing and its environment including thermo-physiological impacts of the interactions.

Research in human body monitoring for valid and reliable monitoring solutions for medical applications.

Technology transfer and implementation of scientific knowledge by collaborations with industry.

HEAT-SHIELD specific informations

Within the HEAT-SHIELD project, Empa mainly works on screening and optimization of technical and biophysical solutions to reduce workers' heat stress. For this reason, we are developing and validating a generic tool to simulate the human surrounding in the transportation sector to be coupled with a cascade of related models, i.e. clothing model, physiological model, thermal sensation model. This tool is going to be used to generate virtual testing environments representing extreme and moderate scenarios to conduct systematic analysis of the influence of various factors on the human heat balance and to reduce heat impact based on optimized solutions.