

CURRICULUM VITAE **Silvio Lorenzetti**

Leiter Ressort Leistungssport
Eidgenössische Hochschule für
Sport Magglingen EHSM



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Privatdozent ETH

Dr. sc. ETH Zürich
Dr. phil.-nat, Uni Bern
Diplom-Physiker

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Date of Birth: September 28, 1974
Place of Birth: Schaffhausen, Switzerland
Married, daughter: Samira, February 14, 2014

Institutional Appointments

Since 2018	Head Ressort Performance Sport, Swiss Federal Institut of Sport Magglingen
Since 2017	Faculty member, ETH Zurich
2014-2018	Permanent Senior Scientist at the Institute for Biomechanics, ETH Zurich <i>in particular</i>
2012-2018	Deputy Vertiefungsleiter "Biomechanics" BWS, ETH Zurich
Since 2009	Building up and heading the new Sports Biomechanics Group, Institute for Biomechanics, ETH Zurich
2007 - 2013	Lecturer and Senior Research Associate at the Institute for Biomechanics, ETH Zurich
2009 - 2012	Co-Head of the Multi scale Biomechanics Group, Institute for Biomechanics, ETH Zurich
2007 - 2009	Head of the Bone and Cartilage Research Laboratory, Institute for Biomechanics, ETH Zurich
2004 - 2006	Ph.D. Student and Assistant at the Institute for Biomechanics, ETH Zurich
2003	Post-doc, Department for Space Research and Planetology, University of Bern
2002 - 2013	Educator for the Star Education, School for Training and Recreation
2000 - 2003	Ph.D. Student at the Institute for Physics, University of Bern
1999 - 2003	Assistant at the Institute for Physics, University of Bern

Academic Offer

Autumn 2016	Shortlisted for a W3 Professorship, rank 3, TU Chemnitz, (GER)
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Autumn 2015 Shortlisted for a Professorship, London Southbank University (LSBU, UK)

Winter 2014 Shortlisted for a Professorship, Victoria University Melbourne and the Australian Institute for Sports (AIS)

Education

2017 PD, Habilitation, *Venia Legendi*, ETH Zurich in "Biomechanics"
Strength training: Towards subject specific modeling, individual internal loading conditions and design of exercises

2007 Dr. sc. ETH Zurich
New method to determine the Young's modulus of single trabeculae

2003 Dr. phil.-nat. UNIBE (Department Space Research and Planetology)
Auswurfalter und Bestrahlungsgeschichte der Meteorite vom Mond, Mars und Asteroiden anhand von Edelgasisotopenanalysen

2000 Master in Physics (Mathematics, Astronomy), University of Bern, Switzerland

1998 Exchange term, University of Strathclyde, Glasgow, UK

1995 - 2000 Studies in Physics, University of Bern, Switzerland

1994 Matura Type C (Natural Sciences), Kantonsschule Schaffhausen, Switzerland

Further Education

2014 Advanced course "Good Clinical Practice (GCP)", Modul 3, CTC, Universitätsspital Zürich

2014	Basic course "Good Clinical Practice (GCP)", Modul 1+2, CTC, Universitätsspital Zürich
2013	Course "Project Management Leadership Skills", ETH Zurich
2010	Certificate "Teaching at ETH Zurich", teaching at master's degree level
2009	Certificate "Teaching at ETH Zurich", teaching undergraduate courses
2008	Venture Challenge
2005	Special module fitness, Physical Education, ETH Zurich

Awards and Honors

2018	ISBS, BiomechanicsDay, Two-Minute-Tweet Competition, Best Submission faculty/industry
2017	Nominated for the KITE Award, ETH
2016	Swiss Olympic Sport Science Award, third prize
2016	Nominated for the KITE Award, ETH
2015	Swiss Olympic Sport Science Award, third prize
2014	Finalist Spark Award, top 20 most promising invention, ETH
2013	Swiss Olympic Sport Science Award, third prize
2012	Inaugural Biomechanics Oscars Competition ISBS, People's Choice Award Short movie
2011	Antarctica Service Medal of the United States of America
2010	startup.ch Challenge, 3rd best, Switzerland, rotavis 1000 CHF
2010	Business Plan Challenge Lichtenstein Rheinthal, rotavis 3500 CHF

2008	Sportler/innen Ehrung Panathlon Club / Stadt Winterthur
2007	Sportler/innen Ehrung Panathlon Club / Stadt Winterthur
2007	ASBMR Young Investigator Travel Grant
2006	ISB Student Dissertation Award
2002	Student Award Recipient Meteoritical Society

Student Awards

2016	Nicole Spörri: 1st, Young Investigator Award, SGS, Swiss Society for Sports Sciences
2013	Roland Zemp: ESB Travel Award, European Society of Biomechanics
2011	Christophe Farrér (ZHAW): SSBE Award, Swiss Society for Biomedical Engineering
2010	Roberto Carretta: Student Dissertation Award, International Society of Biomechanics

Professional Societies

2015 -	Treasurer International Society of Biomechanics in Sports (ISBS)
2015 -	Member of Executive Council International Society of Biomechanics in Sports (ISBS)
2014 - 2016	Board of Directors International Society of Biomechanics in Sports (ISBS)
2017 -	Member European Collage of Sport Science (ECSS)
2016 -	Member International Congress on Science and Skiing (ICSS)
2009 -	Member International Society of Biomechanics in Sports (ISBS)

- 2008 - Member Schweizerische Gesellschaft für Sportwissenschaft (SGS)
- 2008 - Member European Society of Biomechanics (ESB)
- 2008 - 2016 Member Swiss Society for Biomedical Engineering (SSBE)
- 2007 - Member American Society for Bone and Mineral Research (ASBMR)
- 2007 - Member National Strength and Conditioning Association (NSCA)
- 2006 - Member International Society of Biomechanics (ISB)
- 2000 - Member Meteoritical Society

Professional Leadership Roles

- 2018 Program Committee, International Conference on Technology and Innovation icSports
- 2018 Program Committee, Zurich Forum for Applied Sport Science
- 2017 International Society of Biomechanics in Sports ISBS, Session Chair "Computer Modelling and Simulation" Köln, GER
- 2017 ISBS Student Mentor Program of the International Society of Biomechanics in Sports, Mentor
- 2017 Scientific Committee, International Conference on Technology and Innovation icSports, Health and Wellbeing, Funchal, Portugal
- 2017 Scientific Committee, Sportwissenschaftliche Gesellschaft der Schweiz SGS, Zürich, CH
- 2017 Sportwissenschaftliche Gesellschaft der Schweiz SGS, Zürich, CH, Session Chair "Biomechanics and Kinematic analysis"
- 2017 Sportwissenschaftliche Gesellschaft der Schweiz SGS, Zürich, CH, Session Chair of key note lecture
- 2017 Award Committee "SGS-Dissertationspreis" Sportwissenschaftliche Gesellschaft der Schweiz
- 2017 Biomechanisches Praktikum, Swiss-Ski Trainerausbildung
- 2016 International Society of Biomechanics in Sports ISBS, Session Chair "Sport Rehabilitation II" Tsukuba, JP
- 2016 ISBS Student Mentor Program of the International Society of Biomechanics in Sports, Mentor
- 2016 Scientific Committee, International Conference on Technology and Innovation icSports, Health and Wellbeing, Vila Real, Portugal

- 2016 Scientific Committee, International Society of Biomechanics in Sports ISBS, Tsukuba, JP
- 2016 International Program Committee of icSPORTS, Lisbon, Portugal
- 2016 Scientific Committee, Sportwissenschaftliche Gesellschaft der Schweiz SGS, Bern, CH
- 2016 Sportwissenschaftliche Gesellschaft der Schweiz SGS, Session Chair "Biomechanics" Bern, CH
- 2015 Organizer Mini-Symposium "Loading and performance during strength training" ETH Zurich, CH
- 2015 ISBS Student Mentor Program of the International Society of Biomechanics in Sports, Mentor
- 2015 International Society of Biomechanics in Sports ISBS, Session Chair "Poster session 2" Poitiers, FR
- 2015 Biomechanisches Praktikum, Swiss-Ski Trainerausbildung
- 2015 4S annual congress of the Swiss Society of Sport Sciences, Session Chair, Lausanne, Switzerland
- 2015 Scientific Committee, International Society of Biomechanics in Sports ISBS, Poitiers, FR
- 2015 International Program Committee of icSPORTS, Lisbon, Portugal
- 2014 International Society of Biomechanics in Sports ISBS, Session Chair "Strength and Power Sports" Johnson City, TN, USA
- 2014 ISBS Student Mentor Program of the International Society of Biomechanics in Sports, Mentor
- 2014 6th Congress of the SGS, Swiss Society for Sports Sciences, Session Chair "Natural Sciences", Fribourg, Switzerland
- 2014 International Program Committee of icSPORTS, Rome, Italy

2014	Scientific Committee, International Society of Biomechanics in Sports ISBS, Johnson City, TN, USA
2013	Biomechanisches Praktikum, Swiss-Ski Trainierausbildung
2013	International Program Committee of icSPORTS, Vilamoura, Portugal
2012	Minisymposium on Muscle Mechanics, IfB, ETH Zurich, Switzerland, Session Chair
Since 2010	Co-Organizer 1.-7. Zurich Forum for Applied Sport Sciences, ZFASS, Zurich, Switzerland
2010	17 th Congress of the European Society of Biomechanics, Session Chair "Sports Biomechanics", Edinburgh, United Kingdom
2009	ESB 2009 Workshop "Movement Biomechanics and Sport", European Society of Biomechanics, Zurich, Switzerland, Chair Scientific Committee

Major Committee Assignments

2017	Expert, ETH entrance exam, ETH Zurich
2015 - 2018	Didactic Fellowship, ETH Zurich
2015	Co-Founder of SensoMATive GmbH
2013	Founder of LLS Biomechanics GmbH
2013 - 2014	Expert, ZHAW, School of Engineering, Bachelor thesis
2012 - 2016	Expert, Board of Research, BASPO (Bundesamt für Sport)
2010 - 2012	Deputy representative of the academic staff at the department conference HEST, ETH Zurich
2009	Head Award Committee ESB Workshop
2009 - 2011	Member of Arbeitsgruppe Forschung, Eidgenössische Sportkommission

2008-2018 Deputy representative in the study commission
BWS, ETH Zurich

Granting and Funding Agencies

Reviewer Research Foundation - Flanders, FWO, Belgium
Reviewer Rutherford Discovery Fellowship, Royal Society Te
Aparangi, New Zealand
Reviewer Sport Science, Swiss Olympic
Reviewer Swiss National Science Foundation
Reviewer Research Council KU Leuven, Belgium
Reviewer Research Foundation - Flanders, FWO, Belgium
Reviewer Bundesamt für Sport BASPO
Reviewer Eidgenössische Sport Kommission
Reviewer Innovedum teaching projects, ETH Zurich

Editorial Boards

2015 - Editorial Board Sports Biomechanics
2015 - Editorial Board Journal of Functional Morphology
and Kinesiology

2018 Ad Hoc Reviewer Journal of Strength and Condi-
tioning Research
2018 Ad Hoc Reviewer International Biomechanics
2018 Ad Hoc Reviewer Clinical Biomechanics
2017 Ad Hoc Reviewer Plos one
2017 Ad Hoc Reviewer Clinical Biomechanics
2017 Ad Hoc Reviewer Transportation Research Part A:
Policy and Practice
2017 Ad Hoc Reviewer Sports
2017 Ad Hoc Reviewer Journal of Biomechanics

2017 Ad Hoc Reviewer Journal of Strength and Conditioning Research

2017 Ad Hoc Reviewer Journal for applied Biomechanics

2017 Ad Hoc Reviewer Clinical Biomechanics

2017 Ad Hoc Reviewer Journal of Biomechanics

2017 Ad Hoc Reviewer International Biomechanics

2017 Ad Hoc Reviewer IEEE Journal of Biomedical and Health Informatics

2016 Ad Hoc Reviewer European Journal of Sport Science

2016 Ad Hoc Reviewer Applied Ergonomics

2016 Ad Hoc Reviewer Clinical Biomechanics

2016 Ad Hoc Reviewer Journal of Medical and Biological Engineering

2016 Ad Hoc Reviewer Plos one

2016 Ad Hoc Reviewer Clinical Biomechanics

2015 Ad Hoc Reviewer Clinical Biomechanics

2015 Ad Hoc Reviewer Journal of Strength and Conditioning Research

2015 Reviewer congress of the Swiss Society of Sport Science, Lausanne, CH

2014 Ad Hoc Reviewer European Journal of Sport Science

2014 Ad Hoc Reviewer International Biomechanics

2014 Ad Hoc Reviewer Clinical Biomechanics

2014 Ad Hoc Reviewer European Journal of Sport Science

2014 Ad Hoc Reviewer European Spine Journal

2014 Ad Hoc Reviewer Journal of Biomechanics

2014 Ad Hoc Reviewer Medicine & Science in Sports & Exercise

2014 Ad Hoc Reviewer Journal of Strength and Conditioning Research

2014	Reviewer 7 th World Congress of Biomechanics, Boston, USA
2013	Ad Hoc Reviewer Sports Biomechanics
2013	Ad Hoc Reviewer Acta Biomaterialia
2013	Ad Hoc Reviewer Journal of Strength and Conditioning Research
2013	Ad Hoc Reviewer Journal of Sports Sciences
2013	Ad Hoc Reviewer Clinical Biomechanics
2012	Ad Hoc Reviewer Technology & Health Care
2012	Ad Hoc Reviewer BMC Research Note
2012	Ad Hoc Reviewer Scandinavian Journal of Medicine and Science in Sports
2012	Ad Hoc Reviewer Journal of Sports Sciences
2010	Ad Hoc Reviewer Journal of Biomechanics
2010	Reviewer for ESB 2010 Motion and Sports Biomechanics
2003	Ad Hoc Reviewer Geochimica et Cosmochemica Acta

Other activities

Competitive Sports & Strength and Conditioning Expertise

2009 - 2012	Swiss Sailing Championship Dolphin 81 with SUI 55
2006 - 2008	American Football NLA, Winterthur Warriors, Swiss Champion 2006, Vice 2007
2004	Vice Swiss Champion, up to 90 kg, Swiss Drug-Free Powerlifting Federation
2002	Swiss Champion, up to 82.5 kg, Powerlifting, SPC
2009 - 2011	Head of the expert commission for "Fachwissen", SFCV, exam fitness instructor with Federal Certificate, Bundesamt für Bildung und Technologie (BBT)

2007 - 2011 Expert at the federal exam for "Fitnessinstructor with Federal Certificate" (BBT)

Expeditions

06/07 ANSMET, NASA expedition to Antarctica to recover meteorites

02/02/05/09 Expedition in the Omani desert to recover meteorites

Hunting

2017 - 2018 Administrator Allianz Natur Schaffhausen

2014 - 2018 President JagdSchaffhausen

2016 Member Schätzkommission für die Revierverpachtung Kanton Schaffhausen

Since 2011 Member Jägerprüfungskommission Kanton Schaffhausen

2008 - 2013 Vice President and Webmaster JagdSchaffhausen

2006 - 2011 Treasurer JagdSchaffhausen

2015 - Trained hunting dog Centi

2007 - 2015 Trained hunting dog Gwendi

Narrative Report

Dr. S. Lorenzetti is currently the head of the section Performance Sport at the Swiss Federal Institute of Sport Magglingen SFISM. The section supports youth high-performance and elite sport based on an extensive interdisciplinary expert knowledge in the area of sport science and sports medicine.

He was the leader of the Sports Biomechanics Group at the Institute for Biomechanics at the Department of Health Science and Technology of ETH Zurich, Switzerland. In 2017 he received the "*Venia Legendi* in the area of "Biomechanics" at ETH Zurich and is now a privat docent. He studied physics, mathematics and astronomy at the University of Bern with an exchange term at the University of Strathclyde, Glasgow, UK. After a 12 month master's thesis, achieving the highest grade, he did his first Ph.D. in experimental physics (2003) at the University of Bern. The second Ph.D. took place under the supervision of Prof E. Stüssi at the Institute for Biomechanics, in the Department of Mechanical and Process Engineering ETH Zurich in Bone

Biomechanics (2007). After a NASA expedition to Antarctica, he became a Lecturer and Senior Research Associate at the Institute for Biomechanics. He was a co-applicant of the project “Biomechanics of Squat” funded by the Swiss Federal Sports Commission. This project and the inherited project “Dynamic analysis and modelling of the instability of the ankle joint” were successfully completed in 2010. At the microscopic level, a new method to determine the Young’s modulus of single trabeculae was developed. Current research in the area of sports biomechanics includes industry-funded projects and a KTI funded projects as well as the modelling of strength exercises.

He is especially interested in the external and internal loading conditions of the human body during daily activities as well as sports and the corresponding loading of the joints and biological structures. The combination of experimental approaches, combined with finite element analysis (FEA) or whole body simulation allows the influence of macroscopic loading on microscopic structures to be studied.

He has received a number of awards, including the Student Award of the Meteoritical Society, the International Society of Biomechanics Student Dissertation Award and the Antarctica Service Medal of the United States of America.

Since 2008, Dr. Lorenzetti has been actively involved in the development of student education. As of 2008, he is deputy representative in the study commission “Movement Science and Sport” and was deputy representative in the department conference Health Sciences and Technology (2010-2012). His teaching includes courses on Introduction to Health Sciences and Technology, Movement and Sports Biomechanics, Biomechanics II and a laboratory course in Exercise Biomechanics at a bachelor level and Clinical and Movement Biomechanics and Sport Biomechanics at a master’s level at the ETH Zurich. Since 2012, he is the deputy of the head of the major “Biomechanics” of the master program of Human Movement Sciences and Sport. In 2013 he founded a spin-off company, LLS biomechanics GmbH, consulting and educating in biomechanics and in 2015 he was co-funder of the start-up SensoMATive GmbH. In 2014 he was elected as a Director of the International Society of Biomechanics in Sports and in 2015 he was appointed as treasurer.

Funding Information

2017	KTI project (Forster Rohner, LLS) ” FabSense”, Co-Investigator, 541k CHF
2016	KTI project (SensomATive) ”Sit-Cat wheelchair”, PM, 290k CHF,

2016	ESSO, Swiss Olympic funded project (Swiss Ski, Ski jumping), Counselor, 20k CHF
2015	Innovedum project "eSkript 2.0", ETH Zurich, 55k CHF
2015	ESSO, Swiss Olympic funded project (Swiss Ski, Ski cross), Counselor, 48k CHF
2014	Industry funded projects (Swiss Ski), PI, 35k CHF
2014	Innovedum project "Experimentelle Biomechanik (Videos)", ETH Zurich, PI, 48k CHF
2014	Innovedum project "Interaktives Vorlesungsmaterial", ETH Zurich, 30k CHF
2014	BASPO funded project "Knee injury risk in alpine ski racing", PI, 101k CHF
2013	Industry funded projects (Kistler, Swiss Ski, Swiss Olympic), PI, 70k CHF
2013	physioswiss "Spine Dynamics during Gait", Co-Investigator, 6k CHF
2013	KTI project (Künzli) "Ortho Schuh", Co-Investigator, 120k CHF
2011	Industry funded projects (VITRA, Credit Suisse, On), PI, 320k CHF
2010	Industry funded projects (VITRA, Kybun, Scott USA), PI, 120k CHF
2008	Eidgenössische Sportkommission, "Biomechanics of squats", PI, 70k CHF

Teaching Report

Bachelor Level

2015-2018	Main Lecturer, "Biomechanik II", 80% 376-0206-00L
2014-2016	Guest lecturer, "Trainingswissenschaften", 376-0204-00L, 3h
2014	Lecturer, "Biomechanik II", 376-0206-00L, 80%
2013-2017	Lecturer, "Bewegungs- und Sportbiomechanik", 376-0203-00L, 20% - 30%
2013-2017	Lecturer, "Demowoche Gesundheitswissenschaften und Technologie", 376-0003-01L, 100%
2012	Main lecturer, "Praktikum Gesundheitstechnologie", 376-0016-00L, 12.5%
2011-2013	Lecturer, "Introduction to Health Sciences and Technology I", 376-0003-00L, 7% - 15%

2010-2017	Lecturer, "Laboratory Course in Exercise Biomechanics", 557-0131-00L, 25% - 50 %
2008 - 2011	Lecturer, "Basics of Biomechanics", 557-0163-00L, 30 - 50 %
2009 - 2012	Main lecturer, "Biomechanics Ia", 151-0645-01L, 40 % part of 557-0165-00L, 20 %
2008	Lecturer, "Biomechanics Ia", 151-0645-01L, 50 % part of 557-0165-00L, 25 %
2008 - 2013	Main lecturer, "Biomechanics IIb", 151-0646-02L, 100 % part of 557-0166-01L, 50 %
2004 - 2006	Teaching assistant "Biomechanics I, II and IV", 50 hours of teaching yearly
1999 - 2003	Practical courses, beginners and advanced practical courses for physics and biology students, Physical Institute, University of Bern, 80 hours of teaching yearly

Master Level

Since 2010	Main lecturer, "Sports Biomechanics", 376-1168-00L 40%-100%
2016	Guest lecturer, "Grand Challenges in Engineering Design", 151-3203-00L 2h
2015-2017	Lecturer, "Applied movement analysis", 376-2019-00L, 50%
2014-2017	Main lecturer, "Clinical and Movement Biomechanics", 376-1651-00L, 40%
2012 - 2013	Main lecturer, "Biomechanics III", 376-1647-00L, 40 %
2007 - 2011	Lecturer, "Biomechanics III", 376-1647-00L, 40%-50 %

Advisory and Supervisory Responsibility

Ph.D. Students

2015 -	Matt Baker, ETH Zurich, "Knee injury in Golf"
2013 - 2015	Patrick Wettenschwiler, EMPA, "Comparing mechanical discomfort and risk of low back pain or injury when wearing load carriage systems"
2012 - 2016	Florian Schellenberg, ETH Zurich, "Muscle forces in the lower extremities during strength training for strength enhancement, prevention and rehabilitation of an anterior cruciate ligament rupture"

- 2012 - 2015 Stefan Schmid, ETH Zurich / UKBB / FHBE, "Advancing Clinical Movement Analysis: Spinal Kinematics are Fundamental for Understanding Normal and Pathological Gait"
- 2011 - 2015 Roland Zemp, ETH Zurich, "The human being in the office environment in a biomechanical point of view"
- 2008 - 2014 Roberto Carretta, ETH Zurich, "Mechanics of single trabeculae"

Ph.D. Theses, Co-examiner

- 2017 Kurt Schütte, Departement of Kinesiology, KU Leuven, Belgium, "Wearable trunk accelerometry: a technique for quantifying movement patterns while running in relation to fatigue, energy cost, training surface and overuse injury"
- 2016 Rahel Ammann, Faculte des Sciences, Universite de Fribourg, "Quantifizierung und Optimierung von Laufparametern mit Hilfe von körpertragbaren Sensoren"
- 2012 Julien Chardonens, School of Engineering, Lausanne, EPFL, "Outcome evaluation in ski jumping using inertial sensors"
- 2008 Heidi Knüsel, DMAVT, ETH Zurich, "Mechanics of the shoulder complex and clinical investigation in spinal cord injured individuals"

Master Theses

1. Mira Puthettu, EPFL, Lausanne, 2018, "Evaluation of intervertebral reaction moments in infant carrying women"
2. Dominik Huber, HEST, 2018, "Validation of a motion-recognition algorithm using a smartwatch"
3. Alexandra Vollenweider, HEST, 2017, "Uncertainty quantification in joint reaction force analysis towards identification of parameters influencing the output error"
4. Caroline Bachem, HEST, 2017, ETH Zurich, "The effect of elevated heels on kinematic and kinetic parameters during barbell back squats"
5. Ruben Schelbert, DSGB, 2017, Uni Basel, "Influence of motor imagery training after anterior cruciate ligament reconstruction on kinematic gait parameters"
6. Michèle Stauffer, MSc Physiotherapy, 2017, FH Bern, "Comparison of kinematics during various options of infant carrying in a sling"

7. Romain Dayer, ITET, 2017, ETH Zurich, "Kinematics and kinetics of various pulling exercises for strength training and rehabilitation"
8. Andris Ladner, HEST, 2017, ETH Zurich, "The influence of two adaptive stability boots on gait pattern in healthy adults"
9. Raphael Höhn, DSBG, 2017, Uni Basel, "Influence of motor imagery training after anterior cruciate ligament reconstruction on kinetic gait parameters"
10. Michael Plüss, HEST, 2016, ETH Zurich, "Musculoskeletal simulations of squats using CAMS data"
11. Christian Kopp, BWS, 2016, ETH Zurich, "Changing gears: Non-linear gait adaptations across the speed continuum"
12. Edeny Baaklini, MSc Physiotherapy, 2016, FH Bern, "Cross-sectional study on the influence of the height of high-heeled shoes on the kinematics and kinetics of the pelvis and the spine during walking"
13. Mira Ostermann, MSc Physiotherapy, 2016, FH Bern, "Influence on knee alignment during squats in various stance widths and foot positions"
14. Dominik Jenni, BWS, 2016, ETH Zurich, "Finite element modelling of an implant-based prophylactic augmentation approach in the proximal femur"
15. Sabrina Windmüller, Universität Freiburg, 2016, CH; Hochschule für Sport, Magglingen, CH, "Welche Imitationssprünge auf dem Messwagen sind im Kraft-Zeit-Verlauf denen auf der der Skisprungschanze am ähnlichsten?"
16. Ramona Häberle, HST, 2016, ETH Zurich, "Comparison of the kinematics and kinetics of shoulder exercises performed with constant and elastic resistance"
17. Dino Causevic, MAVT, 2016, ETH Zurich, "Entwicklung einer mittels eines Elektromotors geregelten Kraftmaschine"
18. Nicole Spörri, BWS, 2015, ETH Zurich, "The influence of a reduced foveal vision the peripheral detection capacity during multiple object tracking"
19. Olivier Meyer, BWS Trainingslehre, 2015, ETH Zurich, "Auswirkungen von körperlicher Ermüdung auf das Laufen"

20. Thomas Lamparter, Master in top class sport, 2015, EHSM Magglingen, "Validität und Reliabilität von einfachen Messgeräten zur Bestimmung der Langhantelgeschwindigkeit bei freien Kniebeugen"
21. Nicole Schmid, BWS, 2015, ETH Zurich, "Biomechanical Changes in Technique and Movement Variability in the Learning Process of an Upstart in Gymnastics"
22. Julia Lindorfer, Sports Equipment Technology, 2015, Technikum Wien Austria, "Entwicklung eines mobilen Systems zur Überwachung von Kniebeugen in der Knier Rehabilitation"
23. Sergio Corradori, DSBG, 2015, Uni Basel, "Kinetische und kinematische Messungen des Trackstarts zur Leistungsanalyse im Schwimmen"
24. Nicole Hörterer, BWS, 2015, ETH Zurich, "Kniewerletzungen im Schweizer Skirennsport - eine retrospektive Analyse zum Einfluss von Fitnessfaktoren"
25. Suzanne Sinistaj, Health and Fitness, 2015, Universität Salzburg. "Kinematische und kinetische Analyse von Rückenstartvarianten"
26. Sara Lehmann, BWS, 2014, ETH Zurich, "Entwicklung von mechanischen Hautäquivalenten für Materialprüfungen und Forschung"
27. Roman Kallen, BWS, 2014, ETH Zurich, "Systematische Erfassung von Kniewerletzungen im Schweizer Ski-Rennsport"
28. Andreas Ganz, BWS, 2014, ETH Zurich, "Development of a versatile test setup for the biomechanical assessment of various ankle fusion plate systems"
29. Michael Preiswerk, BWS, 2014, ETH Zurich, "Friction mechanisms of the human finger pad"
30. Stefan Plüss, MAVT, 2014, ETH Zurich, "Development of an instrumented vehicle to perform imitation jumps in ski jumping"
31. Karin Schnüriger, BWS, 2014, ETH Zurich, "Sitting behavior during office work"
32. Björn Bruhin, BWS, 2013, ETH Zurich, "Messung der Wirbelsäulenbewegung während des Ganges bei gesunden Jugendlichen"

33. Simon Bürgi, BWS, 2013, ETH Zurich, "Junior Hockey Stick JR16 FlexBlade: A Feasibility Study"
34. Melanie Keller, ISSW, 2013, Universität Basel, "Kinematik und Kinetik von Niedersprüngen und Kniebeugen bei Skispringern"
35. Nicole Ade, BWS, 2013, ETH Zurich, "Entwicklung von Massnahmen zur Prävention von Thoraxverletzungen im Reitsport"
36. Bettina Sommer, BWS, 2013, ETH Zurich, "Trunk kinematics in non-specific low back pain patients following a sudden unloading event"
37. Cynthia Unholz, BWS, 2013, ETH Zurich, "World Cup Downhill Ski Races: Where and why do skiers drop out or get injured?"
38. Markus Ramseier, BWS, 2013, ETH Zurich, "Muskelkräfte, Gelenkkräfte und Gelenkmomente bei Kniebeugen im Ausfallschritt simuliert mit OpenSim"
39. Carole Pauli, BWS, 2013, ETH Zurich, "Imitation jumps in ski jumping"
40. Daniela Häuptli, BWS, 2012, ETH Zurich, "Biomechanical assessment of different unstable shoe sole constructions and their impact on the human body"
41. Michel Schläppi, BWS, 2012, ETH Zurich, "Ballistic bench press performance"
42. Esther Zoller, BWS, 2012 ETH Zurich, "The influence of compression apparel on soft tissue vibrations and muscle activity during running"
43. Michael Angst, BWS, 2012 ETH Zurich, "Load condition of the wrist during the forward handspring, the forward handspring with ulnar deviated hand positioning and the backward handspring"
44. Claudio Koch, BWS, 2012 ETH Zurich, "Comparison of virtual rowing training to on-water training"
45. Barbara Huber, BWS, 2012, ETH Zurich, "Kinematic gait analysis in incomplete spinal cord injured patients"
46. Michel Meisterhans, MAVT, 2012, ETH Zurich, "Development of a new head and neck support system for dental chairs"

47. Manuela Ernst, BWS, 2012, ETH Zurich, "Development of a supplementary device for the external fixator to monitor the course of fracture healing using a novel data collection concept"
48. Benjamin Hinterberger, BWS, 2012, ETH Zurich, "Trunk kinematics following a sudden unloading event in healthy subjects assessed with combined inertial and magnetic sensors"
49. Amélie Reymond, BWS, 2012, ETH Zurich, "Exploration of a new method to correct an abnormal femoral anteversion angle"
50. Christoph Wenger, BWS, 2012, ETH Zurich, "Development of a test device for assessment of glenoid baseplates for reversed shoulder arthroplasty"
51. Florian Schellenberg, BWS, 2012, ETH Zurich, "Machbarkeitsstudie: Intraoperative Bestimmung der mechanischen Eigenschaften des Knochens"
52. Corine Frischknecht, BWS, 2011, ETH Zurich, "Zusammenhang des Pendeltests und des aktiven Streckdefizits mit der 3D Ganganalyse beim Initialkontakt und während der Schwungphase"
53. Ursi Eberli, BWS, 2011, ETH Zurich, "The influence of bone cement stiffness modifications on implant anchorage in osteoporotic bone"
54. Pascal Schütz, BWS, 2011, ETH Zurich, "Bestimmung des Kollagengehalts von Knochen mit Nahinfrarotspektroskopie (NIRS)"
55. Fabian Rast, BWS, 2011, ETH Zurich, "Evaluation der Geometrie einer ventralen winkelstabilen Platte für die Arthrodesse des oberen Sprunggelenks"
56. Benoit Luisier, BWS, 2011, ETH Zurich, "The influence of collagen on elastic properties of a single trabecula tested in three point bending test"
57. Jan Bründler, BWS, 2011, ETH Zurich, "Einfluss von Bindungswinkel und -Abstand auf die Tibiarotation und die Sprunghöhe beim Snowboarden"
58. Roland Zemp, BWS, 2011, ETH Zurich, Pilot study: "Validierung eines Rückenmarkersets"

59. Samuel Volery, BWS, 2010, ETH Zurich, "Auswirkungen eines Slackline- resp. eines herkömmlichen Gleichgewichtstrainings auf die Sensomotorik und die Gleichgewichtsfähigkeit"
60. David Burkhardt, BWS, 2010, ETH Zurich, "Tracking of upper body movements in rowing"
61. Ivan Zderic, BWS, 2010, ETH Zurich, "Ermittlung und Verfolgung der Verschiebung von einzelnen Trabekeln während eines Zugversuchs"
62. Simon Scherrer, MAVT, 2010, ETH Zurich, "Stresses and strains in different glenoid designs of shoulder arthroplasty"
63. Turgut Gülay, BWS, 2010, ETH Zurich, "Momente und Kräfte in Hüft und Knie sowie die Bewegung der Wirbelsäule bei der Kniebeuge"
64. Michèle Mattle, BWS, 2010, ETH Zurich, "Erfassung von Veränderungen der Muskelaktivierung durch interdisziplinäre arbeitsbezogene Rehabilitation mittels Oberflächenelektromyographie bei Patienten mit chronischen Schmerzen im Lendenwirbelsäulenbereich"
65. Erich Roffler, BWS, 2009, ETH Zurich, "Prophylaktische Augmentati- on von osteoporotischen Femora zur Verhinderung von Frakturen"
66. Mirjam Stoop, BWS, 2009, ETH Zurich, "Biomechanik der Kniebeuge: Berechnung der Kräfte und Drehmomente am Knie- und Hüftgelenk in Abhängigkeit der Bewegungsausführung"
67. Aline Mühl, BWS, 2009, ETH Zurich, "Evaluation dynamischer Messme- thoden zur Erfassung einer unilateralen Sprunggelenksinstabilität"
68. Patrick Hiltplot, BWS, 2009, ETH Zurich, "Vergleich der Rotation in der Transversalebene zwischen Frauen mit und ohne patellofemoralem Schmerzsyndrom"

Bachelor Theses

1. Pia Zimmer, FH.T.Wien, 2016, Sports-Equipment Technology, "Influ- ence of stance width and foot positioning on sagittal curvature of the lumbar spine during back squats"
2. Fabian Zeidler, FH.T.Wien, 2016, Sports-Equipment Technology, "Ein- fluss der Standbreite und der Fussposition auf die auftretenden Mo- mente im Kniegelenk, Hüftgelenk und in der Lendenwirbelsäule bei Kniebeugen"

3. Jan Speckien, MAVT, 2016, ETH Zurich, "Development of a calibration device for pressure distribution measurement systems"
4. Mickey Führer, MAVT, 2015, ETH Zurich, "Inbetriebnahme des instrumentierten Ski-Cross Startgates"
5. Serjosha Robmann, MAVT, 2015, ETH Zurich, "Ausarbeitung eines Messaufbaus zur Bestimmung des Dämpfungsverhaltens von Mountainbike"
6. Dominique Ernst, MAVT, 2015, ETH Zurich, "Entwicklung eines kraftsensitiven Startgates im Skicross"
7. Jann Schraner, MAVT, 2014, ETH Zurich, "Development of a sensor system to supervise strength training"
8. Dino Causevic, MAVT, 2014, ETH Zurich, "Testung und Weiterentwicklung einer Auswertungsroutine zur Quantifizierung der Wirbelsäulen-Kinematik"
9. Stefan Anthamatten, MAVT, 2013, ETH Zurich, "Feasibility Study: Influence of damping elements on acceleration and motion on racket and lower arm during tennis serves"
10. Johanna Menze, 2013, University of Twente (NL), "A kinematic analysis of the grab and the track start in swimming - changes in the start performance"
11. Tom Reuter, MAVT, 2012, ETH Zurich, "Biomechanical bench press model"
12. Viktoria Reidl, FH.T.Wien, 2012, Sports-Equipment Technology, "Pilot Study: The influence of two different orthopedic shoes on the ground reaction force and the ankle during gait"
13. Stefan Plüss, MAVT, 2011, ETH Zurich, "Design of a save locking mechanism for a Smith press"
14. Dominique Seuret, MAVT, 2011, ETH Zurich, "Design of a save locking mechanism for a Smith press"
15. Michele Casanova, MAVT, 2009, ETH Zurich, "Translation of the center of the humeral head with respect to the glenoid"

16. Andreas Kaiser, BWS, 2006, ETH Zurich, "Möglichkeiten und Limitationen für die FE-Modellierung einer Knochen trabekel im Biegetest"

Semester Projects

1. Nicolo Tropeano, MAVT 2017, "The influence of two adaptive stability boots on kinetics in healthy adults"
2. Christoph Grether, MAVT 2015, "Loading conditions and simulation of muscle forces during squats"
3. Frédéric Lamon, ITET 2015, "Comparison between Platform and Pinpoint stance serve in tennis in relation to performance and lower limbs loading conditions"
4. Michele Mazzariello, ITET, 2015, "Biomechanics of the strength exercise Back Extension"
5. Stefan Plüss, MAVT 2013, "Development and validation of an instrumented office chair"
6. Enrico De Pieri, ITET 2013, "Office chair simulation with Anybody"
7. Roman Schneider, MAVT 2009, "Quasistatische Momentenberechnung an Knie und Hüfte beim Treppensteigen"

Interns

2018	Joel Rhiner, ETH Zurich, 3 months
2017	Nathalie Zwickl, ZHAW Winterthur, 2 months
2017	Fabienne Schmid, BFH Bern, 2 months
2017	Judith Jäger, ETH Zurich, 3 months
2017	Matthias Meier, ETH Zurich, 3 months
2016	Dominik Huber, ETH Zurich, 3 months
2016	Santiago Alzate Restrepo, Universidad de Antioquia, Colombia, 2 months
2016	Lia Sutter, FH Bern, Switzerland, 2 months
2016	Michèle Stauffer, FH Bern Switzerland, 2 months
2016	Alexander Balloi, BNF Projektpraktikum, Switzerland, 4 months
2016	Stefan Kunz, BNF Projektpraktikum, Switzerland, 5 months
2016	Pia Zimmer, Fachhochschule Technikum Wien Austria, 3 months

2016	Fabian Zeidler, Fachhochschule Technikum Wien Austria, 3 months
2015	Anna Kratschmar, Sporthochschule Köln, 2 months
2015	Michael Plüss, ETH Zurich, 3 months
2015	Mira Ostermann, FH Bern, Switzerland, 3 months
2015	Nicole Hörterer, ETH Zurich, 3 months
2014	Edeny Baaklini, FH Bern, Switzerland, 3 months
2014	Augusto Frusone, BNF Projektpraktikum, Switzerland, 3 months
2014	Peter Kümmerli, BNF Projektpraktikum, Switzerland, 3 months
2014	Janine Weigand, RheinAhrCampus Remagen, Germany, 3 months
2014	Christian Röhrig, University of Heidelberg, Germany, 6 weeks
2013	Jeroen Aeles, KU Leuven Belgium, 1 month
	Julia Lindorfer, Fachhochschule Technikum Wien Austria, 3 months
2012	Michael Angst, ETH Zurich, 3 months
	Pascal Schütz, ETH Zurich, 3 months
	Viktoria Reidl, Fachhochschule Technikum Wien, 3 months
2011	Michel Schläppi, BWS, ETH Zurich, 3 months
2010	Turgut Gülay, BWS, ETH Zurich, 4 months
	Markus Geisendorf, ZHAW, ETH Zurich, 1 month
	Ursi Eberli, BWS, ETH Zurich, 4 months
	Pascal Schütz, BWS, ETH Zurich, 4 months
	Fabian Rast, BWS, ETH Zurich, 4 months
	Florian Schellenberg, BWS, ETH Zurich, 4 months
	Jan Bründler, BWS, ETH Zurich, 4 months
2009	Samuel Volery, BWS, ETH Zurich, 4 months
	Patrick Wettenschwiler, BWS, ETH Zurich, 4 months
	Arnd Viehoefer, Physics, University of Tübingen, 3 weeks
	Ivan Zderic, BWS, ETH Zurich, 4 months
	Roland Zemp, BWS, ETH Zurich, 4 months
	Esther Wobmann, BWS, ETH Zurich, 4 months
2008	Juri Steiner, BWS, ETH Zurich, 4 months
	Fabian Bleiker, BWS, ETH Zurich, 4 months
2006	Jasmin Zahn, University of Heidelberg, Germany, 4 months
2006	Renato Semadeni, BWS, ETH Zurich, 4 months
2005	Katja Oberhofer, M.S., ETH Zurich, 4 months

Literature Work

1. Stephan Häfliger 2017, Comparing typical trunk kinematics in people with and without low back pain: a systematic review
2. Fabienne Riner 2016, Comparison of imitation jumps and competition jumps in ski jumping - A review
3. Dominik Huber, 2016, Influence of vibration of the outcome of strength training exercises
4. David Bützer, 2015, How is the energy return of a sports floor related to the fatigue of the athlete?
5. Ramona Häberle, 2015, "Influence of the breathing pattern on the performance and motion during strength training"
6. Mirjam Pfister, 2015, "Influence of the core stability on the performance and motion during strength training"
7. Lucas Schmid, 2015, "Step counting and activity level: What is the accuracy of mobile phones compared to bracelets?"
8. Oliver Schuhmacher, 2015, "Are the gait parameters and the strength training performance influenced by a supplementation of creatine in elderly subjects?"
9. Ursina König, Lukas Kaiser, BWS, 2014, "Bewegung und Beschwerden im Golf"
10. Domenic Stamm, Björn Bruhin, BWS, 2011, "Richtlinien für die korrekte Ausführung von Krafttrainingsübungen"
11. Benjamin Hinterberger, Ursi Eberli, BWS, 2010, "Kriterien zur Beurteilung der Leistung im Krafttraining"
12. Florian Schellenberg, Nadine Wismer, BWS, 2010, "Messtechnik der Leistungsdiagnostik im Krafttraining"
13. Christian Buser, Exarchos Omiros, MAVT, 2009, "Ganzkörper Krafttest, Möglichkeiten, Limitationen"
14. Matthias Schüssel, David Burkhardt, BWS, 2009, "Krafttraining mit Vibrationsplatten - eine Alternative?"
15. Ivan Zedric, Samuel Volery, BWS, 2009, "Beweglichkeitstraining mit den Vibrationsplatten - eine Alternative?"

16. Ladina Fliri, Maja Schlittler, BWS, 2008, "Der Einfluss des Kollagens auf die Stabilität von Knochen im Alter"
17. Berni Studer, Turgut Gülay, BWS, 2008, "Kräfte und Drehmomente im Knie beim Squat"
18. Corina Nüesch, Michaela Nusser, BWS, 2007, "Auswirkungen von verschiedenen Trainingsprogrammen auf die Knochenmineraldichte und andere Parameter"
19. Daniel Lengwiler, BWS, 2007, "Sinnvolles Rating von Krafttrainingsübungen"
20. Roger von Menthen, ZHAW, 2006, "Aufbau und Ausrichtung von Kollagen und Apatit im Knochen"
21. Cora Huber, BWS, 2006, "Einfluss auf das Knie von Hantel- und Fussposition bei Kniebeugen mit der Scheibenhantel"
22. Denise Schmid, BWS, 2006, "Osteoporose-Diagnose mittels Bestimmung der Knochendichte"
23. Daniel Edelaar, Pascale Vaucher, BWS, 2005, "Osteoporose: Beeinflussung durch Sport / Belastung / Bewegung im Alter"
24. Christine Bachmann, Anna Münger, BWS, 2005, "Osteoporoseprävention beginnt in jungen Jahren"
25. Angie Batschelet und Christine Zimmermann, BWS, 2005, "Osteoporose und Behandlungen mit Alendronat bei Männern und Frauen"
26. Stephanie Unternährer, Franziska Rusca, BWS, 2004, "Einfluss von Schwangerschaft und Stillzeit auf die Knochendichte von Mutter und Kind"
27. Carmen Hauser, Christian Ruckli, BWS, 2004, "Osteoporose und Knochendichte - eine einfache Korrelation?"

Matura Theses

1. Kevin Nietlispach, 2006, "Design und Bau eines aktiven Magnetlagers in Form eines Schwebeglobus"
2. Roland Schübi, 2006, "Fussgängerbrücke über die Limmat"

Invited Talks and Distinguished Lectures

- 2018 Talk, "Krafttraining nicht nur aus biomechanischer Sicht", Senioren-Universität, Zürich
- 2018 Talk, Invited Symposium sponsored by adidas, 23rd annual congress of the European College of Sport Science – ECSS Dublin, IR
- 2018 Talk, Scaphusia, Schaffhausen, "Krafttraining..."
- 2018 Talk, Rotary Club, Schaffhausen, "Sport und Biomechanik"
- 2010 Physioflex, Wettingen, "Erfolgreich trainieren für mehr Lebensqualität"
- 2017 Introductory lecture, ETH, "Krafttraining: von der Belastung über die Modellierung zum Design"
- 2017 18. Tag für Physik und Unterricht, DPK/ETH, Physikalische Konzepte für die Quantifizierung der Bewegung und Belastung im Alltag, Sport und der Medizin
- 2017 ETH Unterwegs, Chur: "Sport und Technology: Gesünder, schneller, höher und stärker"
- 2017 ZFASS, Zurich Forum for Applied Sport Sciences
- 2017 Gait, forces & energy, Lucerne University of Applied Sciences and Art
- 2016 Fachtagung, "Squats", "Back-extensions" and "Rotator cuff exercises", Star Education
- 2015 Einfluss der konditionellen Fähigkeiten auf das Verletzungsrisiko, Swiss-Ski Trainerforum
- 2014 Modelling of strength training exercises, Colloquium University Konstanz (D)
- 2013 Masterdiplomfeier Bewegungswissenschaften und Sport ETHZ
- 2013 Biomechanics of Tendon, Ligaments, Bone, Meniscus and Cartilage, Education for MD in physical medicine and rehabilitation.
- 2012 Biomechanics of the Knee, Qualitätszirkel, Ärztefortbildung
- 2012 Biomechanics of falls, Workshop Novartis, IBM, Falls and Activity Monitoring, Hursley UK
- 2011-2017 Moderator, Zurich Forum for Applied Sport Sciences
- 2011 Objektivierung des Sitzens aus einer ganzheitlichen Perspektive, 6. Konferenz für Gesundheit für Arbeitsmediziner, Weil am Rhein (D)

2011	Biomechanik des Knies, Gründungsveranstaltung der Deutschen Gesellschaft für medizinische technische Trauma Biomechanik (GMTTB, D)
2010	Load condition of the knee during daily activities and sports, ZFASS, Zurich Forum for Applied Sport Sciences
2010	Biomechanics of Tendon, Ligaments and Bone, Education for MD in physical medicine and rehabilitation.
2008	Biomechanics of Bone, Education for MD in physical medicine and rehabilitation.

Media Appearances

1. Snow active, Magazin von Swiss Ski, mixed zone, 2018
2. Bielertagblatt, Swiss Newspaper, 21.12.2017: EHSM unter neuer Leitung
3. Schaffhauser Nachrichten, Swiss Newspaper, 9.11.2017: Kopf der Woche
4. Schaffhauser Bock, Swiss Newspaper, 044, 2017, Gastkolumne
5. Schaffhauser Nachrichten, Swiss Newspaper, 24.10.2017: Personalien
6. Drogistenstern 10/11 2017: So macht Wintersport auch den Gelenken Freude
7. SRF Puls, 2.10.2017: High Heels
8. SRF my school, 12.6.2017: [Physik am Velo, Teil 1 und 2](#)
9. Sonntagszeitung, 23.4.2017: High Heels
10. Fitness Tribune, Nr.166, 2017: Star Fachtagung
11. Fitness Tribune, Nr.166, 2017: Backextension
12. 20min, national newspaper, 4.11.2016
13. Radion Munot, Unter 4 Augen, Oct 16. 2016
14. SHF, Schaffhauser Television, Todays talk, Mar 4. 2016
15. SRF 1, NZZ Format, Feb 4. 2016: [Rücken-stark und sensibel](#)
16. RSI1, Swiss National Television, Jan 10. 2016: [Physiology and Biomechanics](#)

17. Schaffhauser Nachrichten, Swiss Newspaper, Oct 1, 2015: Drei Fragen an ...
18. Radio Munot, Feb 6. 2015: Guest "Kiosk"
19. Fit for Life, Nr.12, 2014: Kurzer Ausfallschritt ist schonender
20. Litteris et Amicitiae, Nr.144, 2014: Fragendomino
21. Fitness Tribune, Nr.153, 2014: F. Schellenberg and S. Lorenzetti: "Bewegung und Belastung bei den Goodmornings und dem Kreuzheben"
22. NZZ, Simon Amman zurück auf der Schanze, 26.6.2014
23. SRF, Swiss National Television, April 7, 2014: Puls: [Barfuss-Laufschuhe](#)
24. schaffhauser az, Swiss Newspaper, Porträt, Nr. 12, 20.3.2014
25. Beobachter, 3, 2014, Biomechanik und Sport, p44-47
26. Schaffhauser Bock, Swiss Newspaper, 006, 2014, Gastkolumne, S. Lorenzetti
27. Staaner Wanze, 2014. p.4.
28. Aargauer Zeitung, Swiss Newspaper, Nov 10, 2013: "Kurzes und heftiges Training macht auch fit", p. 6.
29. Fitness Tribune, Nr.141, 2013: S. Lorenzetti: "Bewegung und Belastung bei der Kniebeuge"
30. Workspirit, 2012, ISSN 2195-1950: "Die Wissenschaft vom Sitzen"
31. Radio RTS, Oct 15, 2012: "Sky jump from 38 km height"
32. Radio Sunrise, Oct 15, 2012: "Sky jump from 38 km height"
33. Radio 24, Oct 15, 2012: "Sky jump from 38 km height"
34. SF, Swiss National Television, Oct 10, 2012,: [Sky jump from 38 km height](#)
35. DRS 3, Swiss Public Radio, May 15, 2012: "Barfusschuhe"
36. DRS 1, Swiss Public Radio, May 3, 2012: Wissen aktuell, Barfusschuhe: Wissenschaftlich geprüft?

37. SONNTAGSZEITUNG, Swiss Newspaper, July 17, 2011: "Auf gesunden Sohlen", p.55.
38. Aargauer Zeitung, Swiss Newspaper, May, 17, 2011:"Jetzt kommt das Barfussjoggen", p.19.
39. Schaffhauser Nachrichten, Swiss Newspaper, Nov 24, 2009: Mit jeder Antwort kamen wieder neue Fragen auf
40. SF2, Swiss National Television, Nov 11, 2009, Sport Lounge: "Marathon - 42,195 km leiden, warum?"
41. SF2, Swiss National Television, Feb 17, 2008: NZZ Format, [Die Bio-Mechaniker](#)
42. Schaffhauser Nachrichten, Swiss Newspaper, June 24, 2003: Kopf der Woche

List of Publications

[My google scholar bibliography](#)

h-index: 19, Sum of the times cited: 1250

[My researcher ID: B-1188-2009](#)

h-index: 14, Sum of the times cited: 762

[My NCBI bibliography](#)

Original Articles

1. PLÜSS, M., SCHELLENBERG, F., TAYLOR, W. R. & LORENZETTI S. 2018. Towards subject-specific strength training design through predictive use of musculoskeletal models. *Applied Bionics and Biomechanics*, doi:10.1155/2018/9721079
2. SAYER, M. G., SCHLAEPPI, M., HITZ, M. AND LORENZETTI, S. The impact of test loads on the accuracy of 1RM prediction using the load velocity relationship. *BMC Sport Science, Medicine and Rehabilitation*, accepted.
3. THIELE F., SCHUHMACHER, S., SCHWALLER, C., PLÜSS, S., RHI-NER, J., LIST, R. & LORENZETTI S. 2018. Restrictions in the ankle sagittal- and frontal-plane range of movement during simulated walking with different types of orthoses. *Journal of Functional Morphology and Kinesiology*, doi:10.3390/jfmk3020021.
4. BAAKLINI, E., ANGST, M., SCHELLENBERG, F., SCHMID, S., TAL, A., TAYLOR, W. R. & LORENZETTI S. 2017. High-heeled walking decreases lumbar lordosis. *Gait and Posture*, doi:10.1016/ jgaitpost. 2017.03.035
5. BAKER, M. L., DEVKAR, R., LORENZETTI, S., SAYERS, M., BOU-TERLLIER, U. & TAYLOR, W. R. 2017. Risk Factors for Knee Injury in Golf: A Systematic Review. *Sports Medicine*, doi:10.1007/s40279-017-0780-5
6. FASEL, B., SPÖRRI, J., SCHÜTZ, P., LORENZETTI, S. & AMINIAN, K. 2017. An inertial sensor-based method for estimating the athlete's relative joint center positions and center of mass kinematics in alpine ski racing. *Frontiers Physiology*, doi: 10.3389/fphys.2017.00850

7. FASEL, B., SPÖRRI, J., SCHÜTZ, P., LORENZETTI, S. & AMINIAN, K. 2017. Validation of functional calibration and strap-down joint drift correction for computing 3D joint angles of knee, hip, and trunk in alpine skiing. *Plos One*, 10.1371/journal.pone.0181446
8. GROSS, M. A. D., SCHELLENBERG, F., LÜTHI, G., BAKER, M. & LORENZETTI, S. 2017. Performance determinants and leg kinematics in the BMX cupercross start. *Journal of Science and Cycling*, doi: 10.28985/171231.jsc.09
9. LIST, R., HITZ, M., ANGST, M., TAYLOR, W.R. & LORENZETTI, S. 2017. In-situ force plate calibration: 12 years' experience with an approach for correcting the point of force application. *Gait and Posture*, doi: 10.1016/j.gaitpost.2017.07.111
10. LORENZETTI, S., AMMANN, F., WINDMÜLLER, S., HÄBERLE, R., MÜLLER, S., GROSS, M., PLÜSS, M., SCHRÖDLER B., & HÜBNER, K. 2017. Conditioning exercises in ski jumping: biomechanical relationship of squat jumps, imitation jumps and hill jumps. *Sports Biomechanics*, doi: 10.1080/14763141.2017.1383506
11. LORENZETTI, S., DAYER R., PLÜSS, M., & LIST, R. 2017. Pulling exercises for strength training and rehabilitation: Movements and loading conditions. *Journal of Functional Morphology and Kinesiology*, doi: 10.3390/jfmk2030033
12. LORENZETTI, S., LAMPARTER, T. & LÜTHY, F. 2017. Validity and reliability of simple measurement devices to assess the velocity of the barbell during squats. *BMC Research Notes*, doi: 10.1186/s13104-017-3012-z
13. SCHELLENBERG, F., JONKERS, I, TAYLOR, W. R. & LORENZETTI, S. 2017. Robustness of kinematic weighting and scaling concepts for musculoskeletal simulation. *Computer Methods in Biomechanics and Biomechanical Engineering*, doi:10.1080/10255842.2017.1295305
14. SCHELLENBERG, F., SCHMID, N., HÄBERLE, R., HÖRTERER, N., TAYLOR, W. R. & LORENZETTI, S. 2017. Loading conditions in the spine, hip and knee during different executions of back extension exercises. *BMC Sports Science, Medicine & Rehabilitation*, doi: 10.1186/s13102-017-0074-0
15. SCHELLENBERG, F., TAYLOR, W. R. & LORENZETTI, S. Towards Evidence Based Strength Training: A Comparison of Muscle Forces

- during Deadlifts, Goodmornings and Split Squats. *BMC Sport Science, Medicine & Rehabilitation*, doi: 0.1186/s13102-017-0077-x.
16. SCHMID, S., BRUHIN, B., IGNASIAK, D., ROMKES, J., TAYLOR, W. R., FERGUSON, S., BRUNNER, R., & LORENZETTI, S. 2017. Spinal Kinematics during Gait in Healthy Individuals across Different Age Groups. *Human Movement Science*, doi: 10.1016/j.humov.2017.04.001
 17. VOLERY, S., SINGH, N., DE BRUIN, E., LIST, R., JAEGGI, M. M., MATTLI BAUER, B., & LORENZETTI, S. 2017. Traditional balance and slackline training are associated with task-specific adaptations as assessed with sensorimotor tests. *European Journal of Sport Science*, doi:10.1080/17461391.2017.1317833
 18. WETTENSCHWILER, P. D., ANNAHEIM, S., LORENZETTI, S., FERGUSON, S. J., STÄMPFLI, R. & PSIKUTA, A. 2017. Validation of an Instrumented Dummy to Assess Mechanical Aspects of Discomfort during Load Carriage. *Plos One*, doi: 10.1371/journal.pone.0180069
 19. PAULI, C., KELLER, M., AMMANN, F., HÜBNER, K., LINDORFER, J., TAYLOR, W.R.& LORENZETTI, S. 2016. Kinematics and kinetics of squats, drop jumps and imitation jumps of ski jumpers. *Journal of Strength and Conditioning Research*, 30(3), 643-652, doi: 10.1519/JSC.0000000000001166
 20. SCHMID, S., ROMKES, J., TAYLOR, W.R., LORENZETTI, S. & BRUNNER, R. 2016. Orthotic Correction of Lower Limb Function during Gait does not immediately influence Spinal Kinematics in Spastic Hemiplegic Cerebral Palsy. *Gait and Posture*, 49, 457-461, doi: 10.1016/j.gaitpost.2016.08.013
 21. SCHMITT, K.-U., HÖRTER, N., VOGT, M.†, FREY, W. O. & LORENZETTI, S. 2016. Investigating physical fitness and race performance as determinants for the ACL injury risk in Alpine ski racing. *BMC Sport Science, Medicine & Rehabilitation*, 8, 23, doi: 10.1186/s13102-016-0049-6
 22. WETTENSCHWILER, P. D., LORENZETTI, S., FERGUSON, S. J., STÄMPFLI, R., AIYANGAR, A. K., ROSSI, R. & ANNAHEIM, S. 2016. Loading of the lumbar spine during backpack carriage. *Computer Methods in Biomechanics and Biomechanical Engineering*, doi:10.1080/10255842.2016.1261849

23. ZEMP, R., FLIESSER, M., WIPPERT, P.-M., TAYLOR, W.R. & LORENZETTI, S. 2016. Occupational Sitting Behavior and its Relationship with Back Pain - A Pilot Study. *Applied Ergonomics*, 56, 84-91, doi: 10.1016/j.apergo.2016.03.007
24. ZEMP, R., TANADINI, M., PLÜSS, S., SCHNÜRIGER, K., SINGH, N., TAYLOR, W.R. & LORENZETTI, S. 2016. Application of Machine Learning Approaches for Classifying Sitting Posture based on Force and Acceleration Sensors. *BioMed Research International*, ID5978489. doi:10.1155/2016/5978489
25. ZEMP, R., TAYLOR, W.R. & LORENZETTI, S. 2016. Seat pan and backrest pressure distribution while sitting in office chairs. *Applied Ergonomics*, 53, 1-9, doi: 10.1016/j.apergo.2015.08.004
26. BÜRGI, S., ROOST, J., HITZ, M., SCHWILCH, P., TAYLOR, W.R. & LORENZETTI, S. 2015. A fast testing method to objectively quantify the stiffness of stability boots. *Applied Bionics and Biomechanics*, doi: 10.1155/2015/595708
27. CARRETTA, R., STÜSSI, E., MÜLLER, R. & LORENZETTI, S. 2015. Prediction of local ultimate strain and toughness of trabecular bone tissue by Raman material composition analysis. *BioMed Research International*, doi:10.1155/2015/457371
28. SCHELLENBERG, F., OBERHOFER, K., TAYLOR, W.R. & LORENZETTI, S. 2015. Review of modelling techniques for in vivo muscle force estimation in the lower extremities during strength training. *Computational and Mathematical Methods in Medicine*, Article ID 483921, doi:0.1155/2015/483921
29. SCHMID, S., STUDER, D., HASLER, C.-C., ROMKES, J., TAYLOR, W.R., BRUNNER, R. & LORENZETTI, S. 2015. Using skin markers for spinal curvature quantification in main thoracic adolescent idiopathic scoliosis: An explorative radiographic study. *PLOS ONE*, doi:10.1371/journal.pone.0135689
30. SCHMID, S., STUDER, D., HASLER, C.-C., ROMKES, J., TAYLOR, W.R., LORENZETTI, S. & BRUNNER, R. 2015. Quantifying Spinal Gait Kinematics using an Enhanced Optical Motion Capture Approach in Adolescent Idiopathic Scoliosis. *Gait and Posture*, 44, 231-237, doi: 10.1016/j.gaitpost.2015.12.036

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