

# CURRICULUM VITAE

**Name** Prof. Dr. med. Michael Tobias Hirschmann  
**Birthday** 30.09.1974  
**Nationality** Swiss, German  
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**H-index** 34  
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Since 1.10.2019 Chief of Orthopaedic Surgery and Traumatology a.i.,  
 Department of Orthopaedic Surgery and Traumatology,  
 Kantonsspital Baselland (Bruderholz, Liestal, Laufen),  
 Switzerland

01.06.2018-30.09.2019 Co-Chief of Orthopaedic Surgery and Traumatology,  
 Department of Orthopaedic Surgery and Traumatology,  
 Kantonsspital Baselland (Bruderholz, Liestal, Laufen),  
 Switzerland

Since 01.09.2013 Head Knee Surgery, Leading Consultant (Leitender Arzt),  
 Department of Orthopaedic Surgery and Traumatology,  
 Kantonsspital Baselland (Bruderholz, Liestal, Laufen),  
 Switzerland

## FELLOWSHIPS

November 2012 ESSKA-APOSSM Fellowship Asia (Taiwan, Seoul, Bangkok, Pune, Jaipur) 2012

September-October 2011 European Arthroscopy Fellowship of AGA e.V., Germany (Deutschsprachige Arbeitsgemeinschaft für Arthroskopie) in Regensburg, Bologna, Verona, Toulouse, Paris, Valencia, Lisbon)

30.08.10-11.09.2010 EFORT Visiting Fellowship Mehilainen Clinic, Coxa Hospital, University Hospital Dr. Timo Järvelä Tampere, Finland

01.01.-31.12.2009	Clinical and Research Fellowship, Orthopaedic Department, Imperial College London, UK (Prof. Justin Cobb, Prof. Andrew Amis)
01.12.-15.12.2007	Clinical Sports Medicine Visiting Fellowship Dr. Bruce Twaddle, Auckland, New Zealand
01.11.-01.12.2007	Clinical Sports Medicine und Knee Surgery Visiting Fellowship (AOA) Dr. John Bartlett, Hayden Morris and Julian Feller, Melbourne, Australia

### ACADEMIC TITLES

Since 01.11.2018	Professor of Orthopaedic Surgery and Traumatology, University of Basel, Switzerland
26.09.2012	Habilitation „venia docendi“ (Assistant Professor) at University of Basel, Switzerland
16.12.2003	Doctorate "magna cum laude" at the chair of Prof. Dr. Eckart Stofft, Institute of Anatomy, University of Mainz, Germany

### POSTGRADUATE MEDICAL EDUCATION

13.04.2011	German Medical Board Certification, Orthopaedic Surgery and Traumatology, Hessen, Germany
01.01.2011-01.09.2013	Consultant (Oberarzt), Department of Orthopaedic Surgery and Traumatology (Prof. Dr. med. Niklaus F. Friederich), Kantonsspital Bruderholz, Switzerland
01.01.2010-31.12.2010	Orthopaedic Resident Speciality Training, Department of Orthopaedic Surgery and Traumatology (Prof. Dr. med. Niklaus F. Friederich), Kantonsspital Bruderholz, Switzerland
01.01.2006-31.12.2008	Orthopaedic Resident Speciality Training, Department of Orthopaedic Surgery and Traumatology (Prof. Dr. med. Niklaus F. Friederich), Kantonsspital Bruderholz, Switzerland
01.07.-31.12.2005	Resident, General Surgery, Department of Abdominal Surgery (Prof. Dr. med. Daniel Oertli) University Hospital Basel, Switzerland

01.01.-30.06.2005	Resident, General Surgery, Department of Emergency Medicine (Prof. Dr. med. Daniel Oertli) University Hospital Basel, Switzerland
01.07.-31.12.2004	Resident, General Surgery, Department of Traumatology (Prof. Dr. med. Pietro Regazzoni) University Hospital Basel, Switzerland
01.01.-30.06.2004	Resident, Cardiothoracic Surgery (Prof. Dr. med. Hans-Reinhard Zerkowski) University Hospital Basel, Switzerland

<b>MEDICAL SCHOOL</b>
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09.06.-27.09.2003	Clinical elective, Department of Surgery (Abdominal - and Vascular Surgery and Traumatology) Hospital "Barmherzige Brüder", Trier, Germany (PD Dr. med. Detlef Ockert)
14.04.-08.06.2003	Clinical elective, Department for Internal Medicine of Ruby Memorial Hospital West Virginia University, Morgantown, U.S.A. (Chairman James E. Brick MD)
17.02.-12.04.2003	Clinical elective, Department for Internal Medicine (Diabetes, Nephrology, Rheumatology and Endocrinology) Hospital "Barmherzige Brüder", Trier, Germany (Prof. Dr. med. W. Boesken)
28.10.2002-15.02.2003	Clinical elective, Department of Orthopaedic Surgery and Traumatology, Kantonsspital Bruderholz, Switzerland (Prof. Dr. med. Niklaus F. Friederich)
30.07.-31.08.2001	Clinical elective, Department of Radiology, Concord General Repatriation Hospital, University of Sydney, Australia (Graham Dunn, MD)
13.03.-12.04.2001	Clinical elective, Praxisklinik Rennbahn, MuttENZ-Basel, Switzerland (Dr. med. Bernhard Segesser)
11.09.-10.10.2000	Clinical elective, Traumatology Department St. Vincenz- und Elisabeth- Hospital, Mainz, Germany (Prof. Dr. med. P. Kirschner)

06.03.-05.04.2000	Clinical elective, Orthopaedic and Sports Medicine Department, Institute for Sport Medicine e.V., Frankfurt/Main, Germany (Dr. med. Heinz Lohrer)
October 1997 - 2003	Study of medicine Johannes Gutenberg University Mainz, Germany

## **BUSINESS EDUCATION**

01.08.1996-31.08.1997	Compulsory social service at Institute for Sports Medicine Frankfurt/Main e.V., Germany
04.07.1996-31.07.1996	Business employee marketing Department, Bosch Telecom Ltd., Frankfurt/Main, Germany
22.08.1994-04.07.1996	Certified Business trainee (Industriekaufmann) at Bosch Telecom Ltd., Frankfurt/Main, Germany (IHK Frankfurt, Germany)

## **RESEARCH**

Since 01.07.2010	DKF Forschungsgruppenleiter (Head of Research) of University of Basel at Department of Orthopaedic Surgery and Traumatology, Kantonsspital Bruderholz, Switzerland
01.07.2006 - 01.01.2008	Academic Research Fellow, Laboratory for Orthopaedic Biomechanics (LOB), Basel, Switzerland
02/2005-12/2006	Member of Osteoporosis Research Group "Osteocare" University Basel, Switzerland
1999-2005	Member of Orthopaedic Biomechanics Research Group, University of Freiburg i. Breisgau and Institute of Sport Medicine e.V. Frankfurt/Main, Germany

## **AWARDS**

June 2019	SSSR Research Award (1st) for "Early, mid- and long-term follow-up of collagen meniscal implant in patients with good clinical outcome"
March 2019	BASK Best Poster for "Analysis of the Attune Knee System- a comparative retrieval study"

February 2019	AAOS Best Poster Award in Adult Reconstruction, AAOS 2019, Las Vegas for "What is the effect of manufacturer changes in tibial tray design of a contemporary total knee arthroplasty? A retrieval study"
November 2018	Best Poster Award (1st) of German Knee Society (DKG) for "Due to great variability fixed HKS angle for alignment of the distal cut leads to a significant error in coronal TKA orientation"
November 2017	Codon Award (1st) at annual congress of German Knee Society (DKG) for "Medial parapatellar approach leads to internal rotation of tibial component in total knee arthroplasty"
November 2017	Codon Award (2 <sup>nd</sup> ) at annual congress of German Knee Society (DKG) for "The stem fixation technique does influence postoperative tibial alignment in revision total knee arthroplasty"
August 2017	Best doctoral thesis at Faculty Medicine, University of Basel for Raffael a`Wengen "Symptomatic versus asymptomatic knees after bilateral total knee arthroplasty- what is the difference in SPECT/CT?"
Juni 2017	EFORT Poster Award for "No correlation between coronal alignment of total knee arthroplasty and clinical outcomes: a prospective clinical study using 3D-CT"
May 2016	ESSKAR Achievement Award, European Society of Sports Knee Arthroscopy (ESSKA); ESSKA Congress, Barcelona, Spain
March 2016	Award of Excellence for Scientific Exhibit SE13 "Findings from a specialised knee clinic for painful knee arthroplasty - what have we learned?" at AAOS 2016, Orlando, Florida, USA
November 2015	Alwin Jäger Best Poster Award (1st) at annual congress of German Knee Society (DKG), Munich for "Langzeituntersuchung von Patienten mit Kollagen-Meniskusersatz"
June 2015	Best Poster Award GOTS (1st) for "Meniscal extrusion and meniscal lesions correlate with increased bone tracer uptake in SPECT/CT"

- June 2015 Best Poster Award of Swiss Society of Nuclear Medicine, Basel for "Meniscal extrusion and meniscal lesions correlate with increased bone tracer uptake in SPECT/CT"
- September 2014 Best Paper Award (1st) at Basel Jubilee Congress 2014 for "Assessment of in vivo loading history of the patellofemoral joint- a study combining patellar position, tilt, alignment and bone SPECT/CT tracer uptake/distribution patterns"
- September 2014 SFA poster award (2<sup>nd</sup>) in Innsbruck, Austria for "Effect of high tibial osteotomy on joint loading in symptomatic patients with varus aligned knees- a study using SPECT/CT"
- June 2014 EFORT Poster Award for "A New Standardized Algorithm To Evaluate Tibio-Talar Osteochondral Lesions Using SPECT/CT", at EFORT congress in London, UK
- 19.-21.09.2013 AGA-SFA Poster-Award (2<sup>nd</sup>) for "Das Patellofemoralgelenk im SPECT/CT: Biologie folgt der Mechanik" at AGA congress 2013, Wiesbaden, Deutschland
- 18.07.2013 Young Investigator Award (1st) of the European Association of Nuclear Medicine (EANM) for "4D-SPECT/CT including assessment of TKA component position, alignment and tracer uptake distribution in patients with painful total knee arthroplasty"
- 12.06.2013 1. Swiss Quality Award, Technology Section, for "Development of a clinically used software for measurement of total knee arthroplasty component position in 3D-CT" in Basel, Switzerland
- 25.04.-27.04.2013 Young Investigator Award (3rd) for "Clinical value of 4D-SPECT/CT including assessment of TKA component position, alignment and tracer uptake distribution in patients with painful total knee arthroplasty" at 3rd ECOSEP congress Frankfurt, Germany

24.11.-30.11.2012	Certificate of Merit at RSNA,,Multimodality assessment of metal-on-metal hip arthroplasties: never miss a diagnosis again on plain radiographs, MARS MRI and SPECT/CT“
22.06.2012	Neurotech® GOTS Young Investigator Award (3rd)
05.05.2012	ESSKA Basic Science 1st Poster Award, 2012, Geneva, Switzerland
June 2011	Neurotech® GOTS Young Investigator Award (2 <sup>nd</sup> )
April 2010	Clinical Research Young Investigator Grant Basel, CHF 50.000 for „SPECT/CT in orthopaedics- a new method of combined quantitative analysis of tracer uptake and determination of mechanical alignment and implant orientation“
01.01.-31.12.2009	Research scholarship of PROMOTIO Stiftung für Biomechanische Forschung, Basel
16.08.2001-31.01.2004	Scholarship of e-fellows.net GmbH & Co KG (Deutsche Telekom AG, Verlagsgruppe Georg von Holtzbrinck, McKinsey & Company), Munich, Germany
April 1999-January 2004	Scholarship of Friedrich-Naumann-Foundation, Potsdam-Babelsberg, Germany
August 2001	Travelling Scholarship of Vereinte Medical Insurance AG, Berlin, Germany

## **SCIENTIFIC ACTIVITIES IN SOCIETIES**

### *MEMBERSHIPS*

Since August 2020	International Member of Association of American Hip and Knee Surgeons (AAHKS)
Since November 2013	Member of European Knee Associates (EKA)
Since 04.2013	Member Deutsche Gesellschaft für Kniechirurgie e.V. (German Knee Society -DKG)
Since March 2012	Member of European Orthopaedic Research Society (EORS)
Since August 2011	Member of the ACL Study Group
Since March 2011	International Affiliate Member of AAOS

2009-2016	Member of International Society for Computer Assisted Orthopaedic Surgery (CAOS International)
Since January 2009	Member of Gesellschaft für Orthopädisch-Traumatologische Sportmedizin (GOTS)
Since February 2008	Member of International Society of Arthroscopy, Knee Surgery & Orthopaedic Sport Medicine (ISAKOS)
Since October 2007	Member of Deutsche Gesellschaft für Orthopädie und Orthopädische Chirurgie e.V. (DGOOC)
2007-2012	Junior-Member of Schweizerische Gesellschaft für Orthopädie und Traumatologie (SGO)
Since July 2007	Member of European Society of Sports Traumatology Knee Surgery and Arthroscopy (ESSKA)
Since May 2006	Member of Sportärzteverband Hessen e.V., Germany
Since May 2006	Member of Deutschsprachige Gesellschaft für Arthroskopie e.V. (AGA)
Since May 2006	Member of Deutsche Gesellschaft für Manuelle Medizin e.V., Isny, Germany
Since October 2003	Member of Landesärztekammer Hessen, Germany
Since June 2001	Alumni of Friedrich-Naumann-Foundation, Potsdam-Babelsberg, Germany
Since May 2001	Past member Rotaract Club Offenbach/Einhard Hessen, Germany

#### *COMMITTEE MEMBERSHIPS*

Since 2016	Member of committee „small implants“ of German Knee Society (DKG)
Since 2018	Member of AGA committee for "Translational orthopedics"
2014-2020	Member of AGA committee for "Degenerative Knee Surgery"
2012-2019	Member of "Bone and Joint" Committee, European Nuclear Medicine Society (EANM)
05.2012-05.2019	Member of the ESSKA Cartilage Committee
05.2012-05.2014	Member of the ESSKA Arthroscopy Committee



Since 04.2013 Member of Research Committee of European College of Sports and Exercise Physicians (ECOSEP)

#### *BOARD MEMBERSHIPS*

Since May 2020 Chairman of the European Knee Associates (EKA)  
 Since May 2020 Board Member of the European Society for Sports Traumatology, Knee and Arthroscopy (ESSKA)  
 Since 2018 Board Member of the German Knee Society (DKG)  
 2017-2020 Vice Chairman of European Knee Associates (EKA)  
 2015-2017 Secretary General of European Knee Associates (EKA)  
 14.09.2012-14.09.2018 Member of Executive Committee of Deutschsprachige Gesellschaft für Arthroscopie und Gelenkchirurgie e.V. (AGA)

#### MAJOR CONFERENCE ORGANISATION

EKA SD Warsaw 2021  
 ESSKA Online 2021  
 German Knee Society (DKG) Online 2020 President  
 ESSKA 2020 Milan Program Chair  
 EKA SD Madrid 2019  
 ESSKA Glasgow 2018 Program Chair  
 AGA Congress Basel 2016 President

#### SCIENTIFIC ACTIVITIES IN JOURNALS

Since 01.2018 Deputy Editor in Chief for Journal "Knee Surgery Sports Traumatology Arthroscopy"  
 01.2015-01.2018 Assistant Editor in Chief for Journal "Knee Surgery Sports Traumatology Arthroscopy"  
 05.2014-01.2015 Associate Editor for Journal "Knee Surgery Sports Traumatology Arthroscopy"  
 Since 04.2013 Member of the editorial Board « Case Reports in Orthopedics »  
 2013-2019 Associate Editor Journal «BMC Sports Medicine Rehabilitation »

Since November 2011	Member of the editorial board for Journal “Knee Surgery Sports Traumatology Arthroscopy”
Since July 2010	Member of the editorial board “Sports Medicine, Arthroscopy, Rehabilitation, Therapy & Technology”
Since March 2010	Member of the editorial board “World J Orthop”

#### **CURRENT PEER-REVIEW ACTIVITY**

Knee Surgery Sports Traumatology Arthroscopy  
International Orthopaedics  
Bone Joint Journal  
Sports Medicine, Arthroscopy, Rehabilitation, Therapy & Technology  
World J Orthop  
BMC Sports Medicine, Rehabilitation  
Journal Experimental Orthopaedics  
Journal of ISAKOS  
Orthopäde  
Skeletal Radiology

#### **PUBLICATIONS**

> 195 PUBMED listed publications in international peer reviewed journals  
> 150 publication in lay-journals  
> 5 books published as editor  
> 50 book chapters published

#### **RESEARCH GRANTS**

Multiple research grants from different funding bodies with a total of 1.200 000 Euro

#### **R&D AND MEDTECH CONSULTANCY**

Lima Revision Knee Project

DepuySynthes EMEA Consultant

Symbios International Consultant

Smith&Nephew Swiss National Consultant