

# CURRICULUM VITAE

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**GoogleScholar:** h-index: 33 (overall); 23 (since 2017)

## MAIN AREA OF RESEARCH

Biomechanical in vitro investigations of degenerative and traumatic pathologies and their treatment options to restore the musculoskeletal function of the affected joint. For these investigations custom built test rigs enabling standardized in vitro loading of the spine, shoulder, wrist, ankle and knee joint were developed and applied to clinically relevant research questions in the past years.

## ACADEMIC CAREER

- Since Sept. 04 **Head of Biomechanics,**  
Dept. of Orthopaedics and Traumatology, Medical University of Innsbruck  
Setting up and management of a new biomechanics laboratory  
Planning, Organisation and Execution of biomechanical research projects  
Supervision of Ph.D. Students and Dissertations  
**Since 01.12.2011 Assistant Professor**  
**Since 15.04.2012 Associate Professor**  
**Since 01.01.2022 Full Professor**
- Jan. 02 – Sept. 04 **Post-Doc Researcher**  
Institute of Orthopaedic Research and Biomechanics, University of Ulm,  
Germany. Spine Research Group – Prof. Dr. HJ Wilke
- Jan. 00 - Nov. 01 **Research Laboratory Manager**  
Implant Performance Laboratory, UCLA, Los Angeles Orthopaedic Hospital,  
(California, USA), Hip research group: Prof. E. Ebramzadeh, Prof. H. McKellop

## TEACHING EXPERIENCE

- Since Oct. 04 **Lecturer, Medical University of Innsbruck, Austria**  
For Ph.D. courses „Musculoskeletal Science“, “Applied Morphology and  
Regeneration” and “Cardiovascular Medicine”
- Since Sept. 17 **Part time lecturer**  
Management Center Innsbruck, Mechatronics (Medical Engineering - Prosthetics)
- Feb. 08 – Feb. 18 **Part time lecturer**  
- Institute for Sport Science, Leopold-Franzens University, Innsbruck, Austria
- Feb. 97 - Dec. 99 **Part time lecturer**  
Glasgow Caledonian University, School of Engineering (Scotland / GB).  
Mechanics, CAD (Pro/ENGINEER), Finite Element Method (ANSYS), Technical  
Drawing

## EDUCATION

- Feb.97 - Nov. 01     **Doctor of Philosophy (Ph.D.)**  
School of Engineering, Glasgow Caledonian University, (Scotland / GB).  
Thesis entitled “Factors contributing to the loosening of femoral stems in total hip arthroplasty”
- March 92 - Dec. 96   **Diplom-Ingenieur Fachrichtung Maschinenbau (Dipl.-Ing. (FH))**  
Aalen University, Germany  
Final thesis at Glasgow Caledonian University (Scotland/GB)
- Oct. 90 - Sept. 91   **Military Service**  
Mountain Division Munich, Germany
- 1981 - 1990           **Allgemeine Hochschulreife (University entrance exam)**  
Abitur, Gymnasium Ulm-Wiblingen, Germany

## MEMBERSHIPS – REVIEWS-PRIZES

### Scientific societies:

- European Society of Biomechanics (ESB) – since 2003
- Deutsche Gesellschaft für Biomechanik (DGfB) - since 2004
- Deutsche Wirbelsäulengesellschaft (DWG) – since 2008
- European Spine Society (ESS) – since 2009
- AO Spine and AO Trauma – since 2010

### Reviewer:

- Advisory Board:   Archives of Orthopedic and Trauma Surgery (AOTS)  
                          European Spine Journal (ESJ), Brain&Spine
- Invited Reviewer   numerous paperprint and online Journals

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## PUBLICATIONS UP TO SEPTEMBER 2020

Conference Presentations:   > 275

Book chapters:                7

Journal papers:                >110

A full and updated list of publications can be found at:

ORCID:                    <https://orcid.org/0000-0003-2962-2594>

