

# Curriculum Vitae

**Gerhard A. Holzapfel, Ph.D.**  
**Professor of Biomechanics**

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## Education

1996 Habilitation in „*Mechanics*“, Vienna University of Technology, Austria  
1993 – 1995 Post-Doctoral Fellow at the Division of Applied Mechanics, Department of Mechanical Engineering, Stanford University; with late Prof. JC Simo  
1990 Ph.D. Mechanical Engineering, Graz University of Technology (TU Graz), Austria; with distinction  
6/86 – 1/87 National Service at Red Cross  
1985 M.Sc. Civil Engineering, TU Graz, Austria; with distinction  
1980 Graduation certificate from High School; with distinction

## Professional Appointments

Since 02/07 Full Professor of Biomechanics – Head of the Institute, Graz University of Technology, Austria  
2/07 – 10/13 Adjunct Full Professor and Chair of Biomechanics, Royal Institute of Technology (KTH), Department of Solid Mechanics, Stockholm, Sweden  
12/04 – 1/07 Full Professor and Chair of Biomechanics, KTH, Stockholm, Sweden  
1/98 – 11/04 Associate Professor and Head of the Research Group “Computational Biomechanics”, Institute of Structural Analysis, TU Graz, Austria  
5/87 – 12/97 Assistant and Docent at the Institute of Strength of Materials, TU Graz (1991 on leave, P.R. China; 1993-1995 on leave, USA)  
1991 Visiting Scholar at University of Shenyang, P.R. China

## Awards and Honors

8/14 Member of the Academia Europaea  
11/13 Congress Award Graz 2013  
5/12 Corresponding Member of the Austrian Academy of Sciences  
3/12 Founding Fellow of EAMBES (Eur Alliance for Medical and Biological Engineering & Science)  
11/11 Erwin Schrödinger Prize 2011, Austrian Academy of Sciences  
11/08 Research Award 2008 of the State of Styria, Austria, for Simulation and Modeling – Basic Research and University Research  
12/07 Member of the young curia of the Austrian Academy of Sciences  
3/03 Awarded with the "Josef-Krainer Würdigungspreis 2003 for exceptional achievements in the field of Biomechanics"  
7/97 START-Award 1997, granted by the Chancellor of the Republic of Austria and the Ministry for Education, Science and Culture  
1992 – 1993 Erwin Schrödinger Scholarship for foreign countries  
1983 Winner of the Amann-Foundation

### **Professorships**

- 5/13: Offer of a Chair in Biomedical Engineering, College of Science & Engineering, School of Engineering, University of Glasgow, UK (not accepted)
- Since 4/09: Visiting Professor, University of Glasgow, Scotland
- Since 2/07: Full Professor of Biomechanics, Graz University of Technology, Austria
- 2/07 – 10/13: Adjunct Full Professor of Biomechanics, Royal Institute of Technology (KTH), Department of Solid Mechanics, Stockholm, Sweden
- 5/07 – 6/07: Visiting Professor, University of Zaragoza, Spain
- 12/04 – 1/07: Full Professor of Biomechanics, KTH, Stockholm, Sweden
- 7/03: Offer of a Chair (C4) in Continuum Mechanics, University of Kassel, Germany (not accepted)
- 4/03–5/03: Visiting Professor, Universidad Politécnica de Cataluña, Barcelona, Spain
- 11/02: Offer for a Visiting Professorship, University of Trento, Italy (not accepted)
- 5/01: Offer for a Visiting Professorship, Polish Academy of Sciences, Warsaw (not accepted)

### **Editorial Appointment**

Co-Founder and Co-Editor of the International Scientific Journal “*Biomechanics and Modeling in Mechanobiology*”, Springer-Verlag, since 2002; appears 6x per year [www.springeronline.com/journal/10237](http://www.springeronline.com/journal/10237) (2012 impact factor: 3.251).

### **Publications**

6 books; 19 book chapters; 2 CD-ROM; 130+ Peer-Reviewed Articles; 50 Conference Proceedings (Full Papers); 300+ Oral and Poster Presentations; 53 Invited Lectures at Universities

### **Research Grants**

PI, Co-I of 20+ research grants: TU Graz, Austrian Science Fund, Austrian Academy of Sciences, State of Styria, Österreichische Nationalbank (Jubiläumsfonds), Austrian Exchange Service, KTH, Swedish Research Council, National Institutes of Health (NIH), The Royal Society, Carnegie Trust, European Commission, industry

### **Service to the Scientific Community**

Co-organizer of 51 Symposia; Member of 9 Editorial Boards, Member of 83 Committees and Panels, Member of 7 Societies; Lecturer of 12 Advanced Schools; Reviewer of 70 Scientific Journals; Grant Reviewer of 22 different grant organizations

### **Supervisor – Assigned Examiner**

1 Habilitation Thesis, 10 Post-Doctoral Fellows (thereof 7 finished); 19 Doctoral Students (thereof 17 defended); 20+ Assignments as examiner and expert for PhD-Thesis

### **Teaching Experience**

Graz University of Technology, Austria; Royal Institute of Technology, Sweden; University of Zaragoza and Universidad Politécnica de Cataluña, Spain; Vienna University of Technology, Austria; University of Shenyang, P.R. China

### **Research Interest**

Experimental and computational biomechanics and mechanobiology; analyses of growth and remodeling; mechanics of soft biological tissues; cardiovascular mechanics; arterial mechanics (atherosclerotic plaques, aneurysms); balloon angioplasty and stent implantation; SHG; MRI; medical image processing; continuum mechanics; constitutive theory; finite elasticity; nonlinear finite element methods; fracture and material failure.