

## Curriculum Vitae (in English)

### François HUG

Date of birth: 20/07/1978 (38 years old)

Married, two children

Professor (full) at the University of Nantes

Head of the laboratory "Movement, Interactions, Performance" (EA 4334) from 01/2017

<http://www.univ-nantes.fr/hug-f>



### Current positions

- 2017-current Lab head**  
*Laboratory MIP-EA 4334, University of Nantes, France*  
*20 researchers with tenure positions, 17 PhD students and 4 post-doctoral fellows*
- 2016-current Leader the research team #2 "motor coordination"**  
*Laboratory MIP-EA 4334, University of Nantes, France*
- 2015-current Professor (full)**  
*Faculty of Sports Sciences, University of Nantes, France*
- 2015-current Honorary Professor**  
*School of Health & Rehabilitation Sciences, The University of Queensland, Australia*

### Past positions

- 2013 – 2015 Principal Research Fellow**  
*School of Health & Rehabilitation Sciences, The University of Queensland, Australia*
- 2006 – 2012 Associate Professor**  
*Faculty of Sports Sciences, University of Nantes, France*
- 2011 (8 months) Visiting academic**  
*School of Health & Rehabilitation Sciences, The University of Queensland, Australia*
- 2005 – 2006 Research Fellow**  
*Laboratory of Physiology and Biomechanics, National Institute of Sports (INSEP), France*
- 2004 – 2005 Post doctoral Fellow**  
*Laboratory of Respiratory Physiopathology, University of Paris VI, France*

### Education

- 2003 PhD in Human Movement Sciences**  
*University of Aix-Marseille II, France*
- 2001 Master in Human Movement Sciences**  
*University of Aix-Marseille II, France*

### Fellowships and awards

- 2016 – current Scientific Excellence Award (PEDR); < 15 % of the French researchers hold this award**
- 2014 Certificate of excellence in reviewing**  
*Journal of Biomechanics / Journal of Electromyography and Kinesiology - Elsevier*
- 2009 – 2013 Scientific Excellence Award (PES); < 15 % of the French researchers hold this award**
- 2012 Certificate of excellence in reviewing**  
*Journal of Biomechanics - Elsevier*
- 2010 Best Basic Research Award**  
*Congress of the International Society of Electrophysiology and Kinesiology, Aalborg, Denmark*

2005

**Post doctoral Fellowship**  
*ANTADIR foundation*

### Publication report

Author of more than 124 publications including:

- 112 papers in peer-reviewed journals (59 articles in the last 5 years)
- 2 invited articles in peer-reviewed journals (1 review and 1 clinical commentary)
- 5 papers in other scientific journals
- 4 book chapters
- 1 book (editor / *Le Mouvement*, ed. *Revue EPS*)

- Total number of **citations**: 1650 and 1156 (with and without consideration of self-citations, respectively) - [source: Scopus]
- **Hirsch (H) index**: 23 and 20 (with and without consideration of self-citations, respectively) - [source: Scopus]
- Number (%) of papers as **first, last, and corresponding author**: 32 (36%), 25 (28%), and 46 (51%)
- **Highest impact factors**: 10.1 (*Intensive Care Med*, 2013), 4.8 (*Proc Biol Sci*, 2015), 4.5 (*Exerc Sport Sci Rev*, 2015)

### Supervision of graduate students

Current:

- 4 PhD (W. van den Hoorn, Univ. Queensland; N. Brøchner-Nielsen, M. Crouzier, Univ. Nantes; S. Avrillon, Univ. Paris Orsay)
- 1 Masters (Univ. Nantes)

Completed:

- 4 PhD (N. Turpin, K. Bouillard, L. Lacourpaille; Univ. Nantes; J. Vaz, Univ. Lisbon)
- 6 Masters (University of Nantes)
- 3 Honours students (Univ. Queensland)
- 2 Medical students - specialisation (Univ. Florence, Univ. Siena)

### Invited conferences / organisation of scientific meetings

**13 invited conferences (9 international / 4 national) including 3 keynote lectures; organization of 2 meetings**

- 2017 *Symposium « Muscle EMG activities in Sport Sciences »: ECSS conference. Rhur, Germany*  
**Organisation of a tutorial “Ultrasound imaging for muscle”**: ISB conference, Brisbane, Australia
- 2016 **Keynote lecture**: *Coord-Age, Marseille, France*  
**Keynote lecture**: *Sport congress, Hammamet, Tunisia*  
*Pre-congress workshop: ISEK conference, Chicago, USA*
- 2015 *Workshop: ISBS conference, Poitiers, France*
- 2014 **Organisation of a symposium “Neuromechanics of muscle coordination”**: ISEK, Rome, Italy
- 2013 **Keynote lecture**: *icSports and Neurotechnix conferences, Vilamoura, Portugal*
- 2012 *Workshop: RobiOSS ‘cyclisme’ (Institut P’), Poitiers, France*
- 2011 *ACSR Spinal Research Symposium IX. July, Adelaide, Australia*  
*Sports et Recherches en Pays de la Loire, La Roche-sur-Yon, France*
- 2006 *Les entretiens de l’INSEP. INSEP, Paris, France*
- 2003 *ACAPS - Symposium « Cyclisme et performance », Toulouse, France*

### Commission of trust

- 2012-current **Academic editor** – *PloS ONE* (≈50 articles/year)
- 2012-current **Associate editor** – *Frontiers in Exercise Physiology* (≈6 articles/year)
- 2009-current **Editorial board** – *Journal of Electromyography and Kinesiology*
- 2015 Scientific committee, ACAPS conference, Nantes, France
- 2014 Scientific committee, IcSports conference, Rome, Italy
- 2014 Scientific committee and track chair, ISEK congress, Rome, Italy

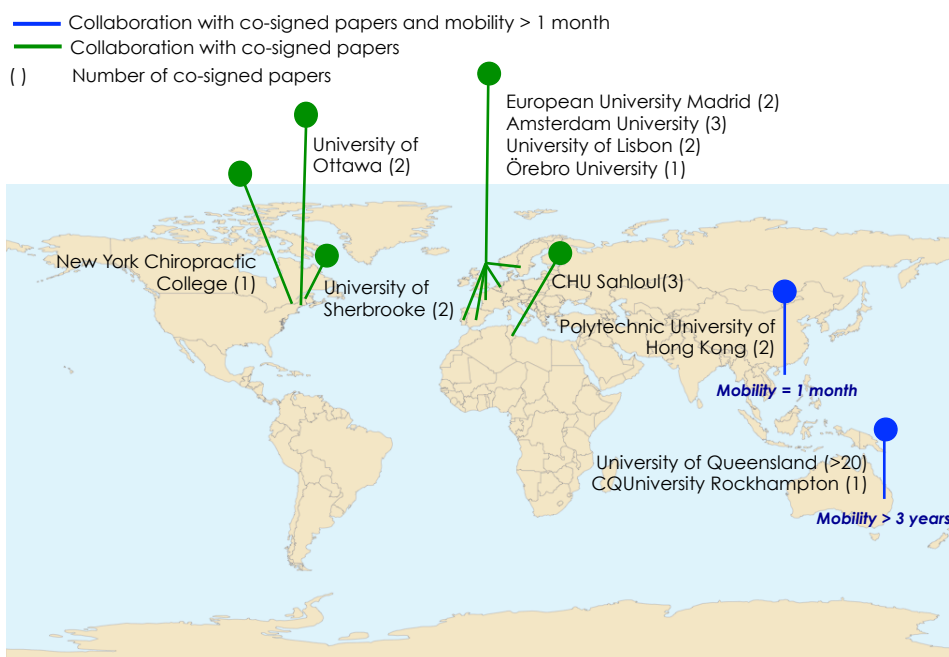
2013 Scientific committee, IcSports conference, Vilamoura, Portugal  
 2012 Scientific committee and track chair, ISEK congress, Brisbane, Australia  
**2004-current** Reviewer for about 25 articles/year  
 Assessor for 3 national (Rhône Alpes, Ministry of Sports) and 7 international research grants (Austrian Sc. Fund, UK asthma, Estonian Sc. Found, RGC Hong Kong, Italian ministry of Health)  
 Assessor for 7 PhD and 1 Authorization to Supervise Research (HDR)

### International collaborations

>40 articles co-signed with at least one international collaborator from >10 universities/faculties

#### Major collaborations (with co-signed articles):

- The University of Queensland – Australia: Prof. P.Hodges, Dr K. Tucker, Dr A. Hatton, A/Prof. T. Carroll, A/Prof. G. Lichtwark, Dr B. Coombes
- CQUniversity Rockhampton – Australia: Dr L. Heales
- Polytechnic University - Hong Kong: A/Prof. A. Fu
- New York Chiropractic College - USA: A/Prof. T. Koo
- University of Sherbrooke - Canada: Prof. Y. Champoux, Dr A. Kennedy
- CHU Sahloul, Sousse - Tunisia: Dr N. Zarrouk
- Amsterdam University – Holland: Prof. J. van Dieën, Prof. M. Coppieters
- European University Madrid - Spain: Prof. A. Lucia
- University of Lisbon – Portugal: Prof. P. Pezarat
- Örebro University – Sweden: Dr M. Eriksson-Crommert



### Research grants

1 766,880 € including 652,440 € as chief investigator; 3 research grants from Australian fund programs

- 2016** Research Infrastructure Block Grant application – CQU University - Associate investigator  
147,640 AUS\$ Purchase of a shear wave elastography scanner
- 2016-current** Région Pays de la Loire (QUETE) – Chief Investigator  
250,000 € Quantification of the elasticity of soft tissues (nerve, muscle and tendon)
- 2015-current** Equipment grant from Région Pays de la Loire / University of Nantes – Chief Investigator  
40,000 € Quantification of muscle elasticity in health and disease
- 2015-2016** French association against the myopathies (AFM – contract n°14597-2) - Associate investigator  
13,040 € An innovative tool to assess muscle function of healthy and pathological subjects

<b>2014-2015</b> 19,000 €	<b>University of Nantes – Interdisciplinary projects - Associate investigator</b> Spatial characterization of muscle stiffness in patients with post stroke
<b>2014</b> 69,000 AUSS\$	<b>UQ Major Equipment and Infrastructure / NHMRC - Chief Investigator A</b> Quantification of muscle mechanical properties by an innovative shear wave elastographic technique for basic and clinical science
<b>2014</b> 22,000 AUSS\$	<b>Rebecca Cooper Medical Research Foundation (Medical Research Grant) - Chief Investigator B</b> Does the adaptation to pain have a purposeful objective to reduce tissue load ?
<b>2013-2016</b> 491,000 €	<b>Région pays de la Loire (ANOPACy) – Associate investigator</b> Analysis and optimization of performance in rowing and cycling
<b>2011-2015</b> 185,100 €	<b>European Regional Development Fund (ERDF – contract n°37400) - Chief Investigator</b> Evaluation of muscle mechanical properties to evaluate neuromuscular diseases and to estimate individual muscle force
<b>2010-2012</b> 32,000 €	<b>French ministry of Sports (contract n°10-R-019) - Associate investigator</b> Study of muscle coordination and mechanical effectiveness during all-out sprint cycling tasks
<b>2010-2012</b> 80,000 €	<b>French association against the myopathies (AFM – contract n°14597) - Chief Investigator</b> An innovative tool to assess muscle function of healthy and pathological subjects
<b>2008-2011</b> 300,000 €	<b>Local grant from “Région pays de la Loire” (Projet OPERF2A) - Associate investigator</b> Optimisation of performance in Rowing
<b>2007-2011</b> 55,000 €	<b>French ministry of Sports (contract n°07-006) - Associate investigator</b> Effects of air-pulsed cryotherapy on muscle recovery subsequent to exercise-induced muscle damage
<b>2009-2010</b> 12,340 €	<b>French association against the myopathies (AFM – contract n°14084) - Chief Investigator</b> Characterization of the electromechanical delay by using ultrafast echographic imaging of in vivo muscle-tendon unit
<b>2007-2008</b> 7,600 €	<b>CP Technology (automatic screw driver manufacturer) - Associate investigator</b> Effect of a specific automatic screw driver on muscle fatigue
<b>2006-2007</b> 10,000 €	<b>French ministry of Sports (contract n°06-029) - Associate investigator</b> Elite Long Sprint Running: A Comparison between Incline and Level Training Sessions
<b>2006-2007</b> 11,800 €	<b>French ministry of Sports (contract n° 06-046) - Associate investigator</b> Effect of fatigue on muscle coordination during pedalling
<b>2001-2003</b> 75,000 €	<b>Amaury Sport Organisation (“Tour de France”) - Associate investigator</b> Physiology and physiopathology of elite cyclists

### Institutional responsibilities

At local level (University of Nantes, France):

<b>2016-current</b>	<b>Board member</b> (elected) of the scientific committee of the University of Nantes
<b>2016-current</b>	<b>Member</b> (elected) of the teaching committee of the Faculty of Sports Sciences
<b>2015-current</b>	<b>Board member</b> (elected) of the Faculty of Sports Sciences
2012	Board member (elected) of the Laboratory MIP-EA 4334
2009 – 2012	Board member (elected) of the Faculty of Sports Sciences
2008 – 2010	Member (elected) of the scientific committee
2006 – 2007	Member (elected) of the teaching and learning committee

At national level:

2018 – 2010	Member (nominated) of the French National Council for Universities (CNU 74)
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### Pedagogic responsibilities

<b>2016 – current</b>	<b>Coordinator of the Master program (2<sup>nd</sup> year) – about 20 students</b> <i>Faculty of Sports Sciences, University of Nantes, France</i>
2008 – 2012	<b>Coordinator of the Bachelor program – sport training (3<sup>rd</sup> year) – about 60 students</b> <i>Faculty of Sports Sciences, University of Nantes, France</i>