

Caecilia Charbonnier - CV



1. PERSONAL DETAILS

Last name: **CHARBONNIER**

Sex: Female

Birthdate: 7 December 1981

Nationality: Swiss and French

Marital status: Single

First name: **Caecilia**

Place of birth: Geneva

Canton of origin: Geneva

Number of children: 0

Personal address:

16, rue Dr-Alfred-Vincent
1201 Geneva

Professional address:

Artanim Foundation
40, chemin du Grand-Puits - 1217 Meyrin, Switzerland
Tel: +41 (0)22 980 91 92
E-mail: caecilia.charbonnier@artanim.ch

Dreamscape Immersive
40, chemin du Grand-Puits - 1217 Meyrin, Switzerland
Tel: +41 (0)22 980 91 12
E-mail: ccharbonnier@dreamscapevr.com

Website: www.charbonnier.ch

2. ACTUAL POSITIONS

Founder, President and Research Director

04.2011

Artanim Foundation - Switzerland

Founder, president and research director of Artanim, a foundation dedicated to the development and promotion of motion capture.

Fundraising and development of research projects (EU H2020, CTI/InnoSuisse, SNF Div. II) in computer graphics, virtual reality and medicine.

Development of educational programs in motion capture, 3D animation, biomechanics and medical imaging. Production activities such as the creation of audiovisual projects and events (3D animations, video games, live performances, interactive applications, etc.).

Portfolio available at: www.artanim.ch

Founder and CTO

12.2016

Dreamscape Immersive Inc. - USA

Founder and CTO of Dreamscape Immersive Inc., a VR entertainment company commercializing Artanim's *Real Virtuality* technology.

Website: www.dreamscapeimmersive.com

Privat-docent

03.2018

University of Geneva, Faculty of Medicine - Switzerland

3. DIPLOMAS

Federal Maturity, type C **2001**

**License in Information and Communication Systems (master equivalent)
with a minor in International Relations (HEI)** **2001-2005**

University of Geneva, Faculty of Economics and Social Sciences (SES)

- License thesis: "Registration of 3D models from MRI using geometric constraints for the anatomical modeling of soft tissues", Thesis Director: Prof. Nadia Magnenat-Thalmann
- Indicative units attended: Databases, Networking, Internet and Multimedia, Object Oriented Programming with Java, Systems Programming, Computer Graphics, Animation and Virtual Reality, Graphical User Interfaces, International Public Law, Political Economy, Political Sciences, Economics History, Political Geography, Sociology

Master of Advanced Studies (MAS) in Computer Graphics **2005-2006**

Polytechnic School of Lausanne (EPFL), Faculty of Sciences, Department of Computer Science

- Master thesis: "Virtual Mirror: A real-time motion capture application for virtual-try-on", Thesis Director: Prof. Nadia Magnenat-Thalmann
- Indicative units attended: Computer Graphics, Image Processing and Computer Vision, VR Programming with Java and C++, Visualization, Animation and Virtual Reality, Internet and Multimedia, Scientific and Medical Communication

PhD in Science, interdisciplinary mention (*summa cum laude*) **2007-2010**

University of Geneva, Faculty of Sciences, Department of Computer Science

Title of the thesis: "Extreme Hip Movements Based on Optical Motion Capture"

Thesis director: Prof. Nadia Magnenat-Thalmann, University of Geneva

Jury members: Prof. José Rolim (University of Geneva), Prof. Franz-Erich Wolter (Leibniz Hannover University), Dr. Mark de Zee (Aalborg University) and Dr. Eric Stindel (University Hospital of Brest)

Certificate of Good Clinical Practice for co-investigators **2014**

University Hospitals of Geneva / Faculty of Medicine, University of Geneva

Approved by Swissmedic, AGEK, SAMS, ISFM, SSIC, SCTO

Good Clinical Practice Course for sponsors-investigators / investigators **2015**

University Hospitals of Geneva / Faculty of Medicine, University of Geneva

Approved by Swissmedic, AGEK, SAMS, ISFM, SSIC, SCTO

Habilitation Thesis for the title of Privat-Dozent (PD) **2017**

University of Geneva, Faculty of Medicine, Department of Radiology and Medical Informatics

Title of the thesis: "Combining Medical Imaging and Motion Capture for the Dynamic Analysis of Personalized Osteoarticular Structures"

4. PROFESSIONAL ACTIVITIES

Founder and CEO **2015-2016**

Artanim Interactive Sàrl - Switzerland

Founder and CEO of Artanim Interactive Sàrl, a VR tech company set up as the spin-off of Artanim Foundation.

Founder and Co-Director **2010-2015**

ArtiFX Sàrl - Switzerland

Founder and co-director of ArtiFX Sàrl, a company specialized in extreme filming, visual effects and postproduction.

Participation in the production of movies and documentaries as scriptwriter, photographer and cameraman both terrestrial and underwater (PADI Rescue diver).

Portfolio available at: www.artifx.ch

Secretary General

2010-2013

Agalma Foundation - Switzerland

Secretary General of Agalma Foundation, a space for reflection and research in neuroscience, psychoanalysis and art.

Management and supervision of the administration, foundation's activities, finances and human resources.

Head of communications and external relations, organizer of international conferences and events.

Member of the Communication Team

2006-2012

Antinea Foundation - Switzerland

Volunteer for the Antinea Foundation that seeks to improve the scientific knowledge of the oceans in order to protect the marine environment.

3D designer and video maker for the communication projects that aim to sensitize the public to the protection of the environment.

Webmaster of "The Changing Oceans Expedition" website: www.changingoceans.org

Founder and Co-Director

2009-2011

ArtificiElles Sàrl - Switzerland

Founder and co-director of ArtificiElles Sàrl, a company specialized in 3D and web development.

Design and creation of websites in Flash, PHP, Ajax, 3D modeling and animation, virtual environments, movies and commercials, etc.

Portfolio available at: www.charbonnier.ch

Research Assistant

2004-2010

MIRALab - University of Geneva

Working at an internationally well-known interdisciplinary graphics and virtual reality research center, interacting with numerous researchers world-wide. Medical research and simulation, including the following topics: optical motion capture and motion analysis, 3D body scanning, biomechanics, ontology, image processing, segmentation, surface deformation and registration.

Publishing research results in international refereed journals and conferences.

Contribution in the following projects:

- CO-ME (SNSF NCCR project): Development of a semantic-driven clinical examination platform, integrating various acquisition modalities (MRI, 3D scanner, motion capture, etc.). Motion study of the hip joint in extreme postures.
- 3D ANATOMICAL HUMAN (UE project, MRTN-CT-2006-035763): Creation of a medical ontology of the musculoskeletal system, manual segmentation and 3D reconstruction of the lower limb from MRI.
- FOCUS K3D (UE project, ICT-2007-214993): Evaluation of knowledge systems and dissemination actions for the adoption and the use of those technologies, in order to foster the coding and sharing of 3D media content.

Actively authoring, contributing and co-managing several Swiss and EU research projects (EU FP6, FP7, CH SNSF Div. II).

Presenter at and co-organizer of international conferences, fairs and events.

Bachelor and master students' co-supervision. Assistant for the courses "Outils Informatiques" and "Animation et Multimedia", B.Sc. courses, years 2004 - 2008, University of Geneva.

Webmaster and system administrator of the lab.

- Consultant** **2001-2009**
Télévision Suisse Romande (TSR) - Switzerland
 Consultant and live interviews for sport-related programs, such as Roland-Garros and Wimbledon.
- Project Manager** **2005-2006**
MIRALab - University of Geneva
 Responsible for the administrative management and coordination of EU and Swiss projects in the lab. Tasks including the accountancy and the management of human resources, the redaction of EU and SNSF reports, and the administrative coordination between the various project's partners.
- Editor in Chief** **2002-2004**
Jet d'Encres - University of Geneva
 Editor in chief of the bi-annual newsletter of the Political Sciences and International Relations Department. Coordination of the team, journalist and edition of the journal template.
- Tennis Teacher** **2001-2004**
 Tennis teacher for Youth & Sport, group and individual courses.
- Trainee** **2002**
Tribune de Genève - Switzerland
 Trainee (2 months) for the daily newspaper at the Tribune de Genève, Sports Department.

5. TEACHING / STUDENT SUPERVISION

Pre-graduate academic program

- Technologie et simulation 3D en orthopédie et médecine du sport, B.M. course 2230323, 3 ECTS credits, Faculty of medicine, University of Geneva, since 2014 (20 hours / year)
- Visualisation et reconstruction 3D en imagerie médicale: techniques et applications, B.M. course 2230322, 3 ECTS credits, Faculty of medicine, University of Geneva, years 2015-2017 (14 hours / year)
- Mouvement et la mode, workshop M.A Media Design, 3 ECTS credits, Geneva University of Art and Design, semester 2016-2017 (9 hours)
- 3D Modeling and Animation, M.A course in Media Design, 3 ECTS credits, Geneva University of Art and Design, years 2014-2016 (30 hours / year)
- 3D Modeling and Animation, M.A course in Media Design, 6 ECTS credits, Geneva University of Art and Design, semester 2013-2014 (42 hours)
- Outils Informatiques, B.Sc. course 4104002, 6 ECTS credits, University of Geneva, years 2004-2008 (22 hours / year)
- Animation et Multimédia, B.Sc. course 4204003, 6 ECTS credits, University of Geneva, years 2004-2008 (22 hours / year)

Post-graduate academic program and continuing training

- Capture de mouvement et simulation de l'épaule: applications, continuing training course of the Orthopedics Department, HUG, June 19th 2015 (1 hour)
- Imagerie 3D en radiologie ostéoarticulaire, post-graduate and continuing training course of the Radiology Department, HUG, May 26th 2014 (1 hour)
- La modélisation des articulations en 3D, continuing training course for physiotherapists, HUG, November 10th 2009 (1 hour)

Workshops / tutorials

- Workshop Montreux Jazz Festival 2014: "3DInMotion – Mapping motion capture with musical expression", Montreux Jazz Festival, July 12th 2014 (1 hour)
- Workshop Electron 2014: "3DIM – Mocap and multichannel audio", Electron Festival, April 20th 2014 (3 hours)
- Workshop WEP2014: "Behind the scene: from motion capture to 3D character animation", King Abdullah University of Science and Technology, Jeddah, January 23rd-26th-27th 2014 (10 hours)
- Workshop FOCAL: "Introduction à la motion capture: de la capture à l'intégration des données", Neuchâtel International Fantastic Film Festival (NIFFF), July 8th 2013 (6 hours)
- Workshop FOCAL: "Motion Capture: de la capture à l'intégration des données", Artanim, December 21st 2011 (6 hours)
- Tutorial: "3D Body Scanning and Motion Analysis", 3D Physiological Human Workshop, Zermatt, December 3rd 2008 (1 hour)

Student supervision

- Jacky C.K. Chow, Development of a new motion tracking technique of the shoulder in fluoroscopic imaging sequences, 2013, PhD internship, University of Calgary
- Alexandre Corsini, Création d'un manuel d'utilisateur en Flash pour un programme d'animation de cheveux en temps réel, 2007, Bachelor Project, MIRALab, University of Geneva
- Maryam Arasteh, Evaluation and Comparison of latest 2D/3D Web Technologies, 2008, Master Thesis, MIRALab, University of Geneva

6. RESEARCH / FUNDED R&D PROJECTS

The team of Artanim Foundation includes five researchers and one legal/administrative collaborator. The research activities of the laboratory concerned or concern for the most part the following fields:

- Joint biomechanics, in particular the 3D modeling and motion analysis of the hip, knee and shoulder
- 3D simulation and computer-assisted surgical planning of native or prosthetic joints
- 3D body scanning and motion capture from different technologies (optical, inertial, markerless)
- Virtual and augmented reality, real-time motion interaction and 3D animation

List of completed or ongoing R&D projects:

Multiparametric and quantitative imaging in head and neck squamous cell carcinoma

Duration: January 2018 - December 2020

Funding: SNF project n°320030_173091 / 1 - CHF 368'630 (total budget) and CHF 61,500 (Artanim's budget)

Main applicant / coordinator: Prof. Minerva Becker, University Hospitals of Geneva

Description: 3D reconstruction of ORL tumors and development of a histologically validated computer-aided tumor model for the accurate contouring of gross tumor volume for radiotherapy planning.

Partners: University Hospitals of Geneva – Service of Radiology, [Artanim Foundation](#), University Hospitals of Geneva – Service of Nuclear Medicine, University of Geneva – Department of Clinical Pathology, University Hospitals of Geneva – Unit of Rhinology-Olfactology Otorhinolaryngology

VR-Together

Duration: October 2017 - September 2020

Funding: EU H2020, ICT-19-2017 - € 3,929,937 (total budget) and € 445,000 (Artanim's budget)

Coordinator: Sergi Fernandez Langa, Fundació i2CAT

Description: Development of software tools for the production and delivery of social VR experiences combining photographic-quality content with a strong feeling of co-presence.

Partners: Fundació i2CAT (Spain), Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek (The Netherlands), Centrum Wiskunde & Informatica (The Netherlands), Centre for Research & Technology Hellas (Greece), Viaccess-Orca (France), Future Lighthouse (Spain), Entropy (Spain), Motion Spell (France), [Artanim Foundation](#)

Real Virtuality

Duration: April 2015 - August 2019

Funding: Artanim Foundation

Description: Development of an immersive platform combining virtual reality headsets with motion capture for interactive applications and virtual visits.

HoloMed

Duration: September 2016 - February 2018

Funding: FORE Foundation / La Tour Hospital, Hirslanden Clinique La Colline - CHF 260,000

Coordinator: Dr. Caecilia Charbonnier, Artanim Foundation

Description: Development of an augmented reality tool for sport medicine and rehabilitation allowing the visualization and analysis of the anatomy in real time and in motion.

Partners: [Artanim Foundation](#), La Tour Hospital – Division of Orthopedic and Trauma Surgery, Hirslanden Clinique La Colline – Division of Orthopedic and Trauma Surgery

Reverse Shoulder Arthroplasty

Duration: January 2017 - December 2017

Funding: Hirslanden Clinique La Colline - CHF 60,000

Coordinator: Dr. Caecilia Charbonnier, Artanim Foundation

Description: Effect of critical shoulder angle, glenoid lateralization and humeral inclination on range of motion in reverse shoulder arthroplasty.

Partners: [Artanim Foundation](#), Hirslanden Clinique La Colline – Division of Orthopedic and Trauma Surgery

3D Proto – Strategic Enhancement of Garment Prototyping Processes for the Active Sportswear Sector by Means of Virtual 3D Simulations

Duration: December 2015 - December 2016

Funding: CTI project n°18124.1 PFES-ES - CHF 97,856 (total budget) and CHF 47,960 (Artanim's budget)

Main applicant / coordinator: Prof. Christiane Luible, Geneva University of Art and Design

Description: Enhancement of sports garment prototyping by means of virtual 3D simulations.

Partners: Geneva University of Art and Design, [Artanim Foundation](#), Odlo International SA

Motion and Unconsciousness

Duration: January 2013 - December 2016

Funding: Agalma Foundation - Approx. CHF 310,000 (total budget) and CHF 230,000 (Artanim's budget)

Coordinators: Prof. François Ansermet, University Hospitals of Geneva and Prof. Pierre Magistretti, Brain Mind Institute – EPFL

Description: Study of behavioral correlates on the subjective sensation of synchrony using motion capture, respiration measurements and EEG.

Partners: Agalma Foundation, [Artanim Foundation](#), University Hospitals of Geneva – Service of Child and Adolescent Psychiatry, Department of Child and Adolescent, Brain Mind Institute – EPFL

ArthroPlanner

Duration: November 2014 - October 2016

Funding: Private - CHF 290,000

Main applicant / coordinator: Dr. Caecilia Charbonnier, Artanim Foundation

Description: Development of dynamic surgical planning solutions for the hip, shoulder and knee.

Shoulder Instability

Duration: August 2014 - July 2016

Funding: FORE Foundation / La Tour Hospital - CHF 40,000

Coordinator: Dr. Caecilia Charbonnier, Artanim Foundation

Description: Kinematic study of glenohumeral anterior instability before and after surgical treatment.

Partners: [Artanim Foundation](#), La Tour Hospital – Division of Orthopedic and Trauma Surgery, Rive Droite Radiology Center SA

Fashioning Movement

Duration: November 2013 - October 2015

Funding: HES-SO - CHF 152,000 (total budget) and CHF 44,000 (Artanim's budget)
Main applicant / coordinator: Prof. Christiane Luible, Geneva University of Art and Design
Description: Objective analysis of garment comfort using 3D simulation tools on animated bodies.
Partners: Geneva University of Art and Design, [Artanim Foundation](#)

To Fit

Duration: June 2014 - April 2015
Funding: ToFit Sàrl - CHF 40,000
Coordinator: Sylvain Chagué, Artanim Foundation
Description: Development of a complete 3D body and head scanning solution.
Partners: [Artanim Foundation](#), ToFit Sàrl

Shoulder Rehabilitation

Duration: April 2014 - December 2014
Funding: University Hospitals of Geneva - CHF 16,000
Coordinator: Dr. Caecilia Charbonnier, Artanim Foundation
Description: Impact of strengthening shoulder exercises on the glenohumeral joint and rotator cuff.
Partners: [Artanim Foundation](#), University Hospitals of Geneva – Department of Orthopedic Surgery and Traumatology, Unit of Physical Medicine and Orthopedic Rehabilitation

Thoracic Outlet Syndrome

Duration: March 2014 - December 2014
Funding: FORE Foundation / La Tour Hospital - CHF 16,000
Coordinator: Dr. Caecilia Charbonnier, Artanim Foundation
Description: Kinematic study of the thoracic outlet syndrome, a rare condition involving nerves compression in the costoclavicular area.
Partners: [Artanim Foundation](#), La Tour Hospital – Division of Orthopedic and Trauma Surgery, Rive Droite Radiology Center SA

Taylormatic

Duration: December 2012 - October 2014
Funding: NoBrandSolution Sàrl - CHF 187,000
Coordinator: Sylvain Chagué, Artanim Foundation
Description: Development of a virtual mirror and an interactive cross-platform retail solution, including a high quality 3D product viewer and configurator.
Partners: [Artanim Foundation](#), NoBrandSolution Sàrl

Shoulder3D – Kinematic Modeling of the Human Shoulder

Duration: June 2012 - March 2014
Funding: La Tour Hospital, European Society of Shoulder and Elbow Surgery - CHF 125,000
Coordinator: Dr. Caecilia Charbonnier, Artanim Foundation
Description: Development of a new kinematic model of the shoulder complex coupling magnetic resonance imaging (MRI) and motion capture.
Partners: [Artanim Foundation](#), La Tour Hospital – Division of Orthopedic and Trauma Surgery, Rive Droite Radiology Center SA

MyHip – Patient-Specific Pre-operative Planning and Intra-operative Surgical Guidance for Total Hip Arthroplasty

Duration: February 2012 - January 2014
Funding: CTI project n°13573.1 PFFLE-LS - CHF 274,760 (total budget) and CHF 118,000 (Artanim's budget)
Main applicant / coordinator: Prof. Jérôme Schmid, Geneva Health School (HEdS)
Description: Development of a dynamic simulation module based on motion capture and integrated to the preoperative planning of total hip arthroplasty.
Partners: Geneva Health School (HEdS), [Artanim Foundation](#), University Hospitals of Geneva – Department of Orthopedic Surgery and Traumatology, Medacta International SA

Sexual Activity after Total Hip Arthroplasty: A Motion Capture Study

Duration: January 2013 - April 2013

Funding: Artanim Foundation

Coordinator: Dr. Caecilia Charbonnier, Artanim Foundation

Description: Study of the relative risks of sexual activity in patients implanted with hip prosthesis.

Partners: [Artanim Foundation](#), University Hospitals of Geneva – Department of Orthopedic Surgery and Traumatology, Medacta International SA

7. OTHER FUNDED PROJECTS

3D animations, films, video games

- Motion capture and animation for the virtual dance piece "VR_I", Cie Gilles Jobin, May 2017.
- Motion capture for a short-animated film at the exhibition "Niklaus Manuel and the Reformation Period", Historical Museum of Bern, November 2016.
- Motion capture for a video fiction "The Next Round", Quentin Lannes, June 2016.
- Motion capture for a contemporary dance performance "Força Forte", Cie Gilles Jobin, September 2015.
- Téo & Léonie Trailer, Kenzan, February 2015.
- Short 3D animations for Gexfix, January 2015.
- Motion capture and animation for a mobile video game, Pom Pom Interactive, September 2014.
- Short 3D animation of winter sports, Olympic Games Sochi 2014, Sochi, February 2014.

Interactive installations

- *In collaboration with the Cie Gilles Jobin: "VR_I", Sundance Film Festival New Frontier 2018, Park City, January 18th-28th 2018.*
- *In collaboration with the Cie Gilles Jobin: "VR_I", HeK – House of electronic Arts, Basel, October 25th-29th 2017.*
- *In collaboration with the Cie Gilles Jobin: "VR_I", Théâtre Forum Meyrin, Meyrin, October 12th-15th 2017.*
- *In collaboration with the Cie Gilles Jobin: "VR_I", Festival du nouveau cinéma, Montreal, October 6th-10th 2017.*
- "Wake up and dream", WVR17, Crans Montana, May 10th-14th 2017.
- "Inside Real Virtuality", Swissnex, Bangalore and Mumbai, January 14th-21st 2017.
- *In collaboration with the Cie Gilles Jobin: "VR_I", Experimenta 2016, Grenoble, October 5th-8th 2016.*
- "Real Virtuality", Cannes Festival 2016, Cannes, May 11th-14th 2016.
- "Real Virtuality", FMX 2016, Stuttgart, April 26th-29th 2016.
- "Real Virtuality", Laval Virtual 2016, Laval, March 23rd-27th 2016.
- "Real Virtuality: Immersive Explorers", Lift 16, Geneva, February 11th-12th 2016.
- "Real Virtuality: Immersive Explorers", Sundance Film Festival New Frontier 2016, Park City, January 22nd-30th 2016.
- "Real Virtuality", Tous Ecrans Festival 2015, Geneva, November 6th-7st 2015.
- "Inside Real Virtuality", Swissnex, San Francisco, August 17th-21st 2015.
- "Montreux Jazz Video Jukebox", Montreux Jazz Festival 2015, Montreux, July 3rd- 18th 2015.
- "3D In Motion", Caprices Festival 2015, Crans-Montana, April 9th- 12th 2015.
- "Omega Light Tracking", Baselworld 2013, Basel, April 25th-May 2nd 2013.
- *In collaboration with the Geneva University of Art and Design and Trivial Mass Production: "Tissot Wrist Watch", Baselworld 2012, Basel, March 8-15th 2012.*

Live performances

- Dance show "Star Wars", Grand Prix d'Horlogerie de Genève, Grand Théâtre de Genève, Geneva, November 19th 2011.
- *In collaboration with the MIRALab-team, the University Hospitals of Geneva and the Grand Théâtre de Genève: "La danse dans tous ses états", Centre Médical Universitaire, Geneva, June 13th 2009.*

8. AWARDS

- **Finalist of the Swiss ICT Award 2017** for the VR platform "Real Virtuality", Swiss ICT Award, Lucerne, 2017.
- *In collaboration with the Cie Gilles Jobin: **Winner of the Innovation Award** and **of the Public Award** for the virtual reality dance piece "VR_I", Festival du nouveau cinéma, Montreal, 2017.*
- **Winner of the 2016 Laval Virtual Award** in the category 3D Game and Entertainment for the VR platform "Real Virtuality", Laval Virtual 2016, Laval, 2016.
- **Finalist of the "Immersive Realities (VR/AR) contest"** awarding the best augmented/virtual reality experiences possible using today's technologies for the VR platform "Real Virtuality", SIGGRAPH 2015, Los Angeles, 2015.
- *In collaboration with La Tour Hospital and the Rive Droite Radiology Center SA: **Best Technical Paper Award** for the paper entitled "A Patient-Specific Measurement Technique to Model the Kinematics of the Shoulder in Tennis Players", 14th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery (CAOS), Milan, 2014.*
- *In collaboration with the University Hospitals of Geneva and Medacta International SA: **Special distinction for the best discussion of the poster** entitled "Sexual Activity after Total Hip Arthroplasty: A Motion Capture Study" ", 15th Annual Congress of the European Federation of National Associations of Orthopaedics and Traumatology (EFORT), London, 2014.*
- *In collaboration with the University Hospitals of Geneva: **ISAKOS Achilles Orthopaedic Sports Medicine Research Award** for the paper entitled "Clinical and MRI Findings in Professional Dancers' Hip: A New Femoro-acetabular Impingement? ", 8th Annual Congress of the International Society of Arthroplasty, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Rio de Janeiro, 2011.*
- *In collaboration with the MIRALab-team and the University Hospitals of Geneva: **Eurographics Medical 1st Prize** for the paper entitled "Virtual Hip Joint: from Computer Graphics to Computer-Assisted Diagnosis", 30th Annual Conference of the European Association for Computer Graphics, Munich, 2009.*
- **2009 Walthard Prize** from the University of Geneva. This prize is given to a student conducting with success a sport career and academic studies.

9. SOCIETIES

- International Society for Computer Aided Surgery (ISCAS)
- Eurographics

10. OFFICIAL FUNCTIONS

- **Member of the scientific advisory board, Surgical Devices Innovation Platform, from 05.2017**
Member of the scientific advisory board of the Surgical Devices Innovation Platform, University Hospitals of Geneva.
- **President, Virtual Switzerland Association, from 10.2016**
President of the National Thematic Network (NTN) *Virtual Environments Interaction and Simulation* that aims to be a catalyzer of innovation in the fields of immersive technologies and virtual environments

simulation by promoting dialogue and knowledge exchange between academic and industrial Swiss players in the medtech, architecture & construction, manufacturing and tourism & culture sectors. Network funded by the CTI, period 2017-2020, CHF 1,320,000.

11. TECHNICAL AND SCIENTIFIC FUNCTIONS

Member of scientific program committees

- 33rd International Conference on Biomechanics in Sports, 2015
- 3D Physiological Human Workshop, 2009
- 3D Physiological Human Workshop, 2008
- Research Networking Workshop 2008 in the context of NCCR CO-ME project

Reviewer for specialized journals or international conferences

- American Journal of Sports Medicine (IF: 4.3)
- Journal of Orthopedic Research (IF: 2.9)
- Journal of Biomechanics (IF: 2.7), Journal of Applied Biomechanics (IF: 0.9)
- International Conference in Sport Biomechanics 2015
- Medical Imaging Computing and Computer-Assisted Intervention (MICCAI) conference 2011

12. FUNDING / GRANTS

Funding

- 5'712'000 CHF in competitive third-party funding since 2011 (CTI, industry, public and private funds), see Sections 6 and 10 for details.

Grants

- *Hans Wilsdorf Foundation*, grant to participate to the 10th International Symposium on 3D Analysis of Human Movement, Amsterdam, October 2008.
- *Hans Wilsdorf Foundation*, research grant, years 2007-2009.

13. INVITED CONFERENCES

1. Rencontre du 7e art de Lausanne (r7al) : Round table "Parles avec elles", Lausanne, March 27th 2018
2. Swiss Foundation for Innovation and Training in Surgery (SFITS): "Perspectives of VR/AR in medicine", Geneva, Avril 6th 2018
3. World VR Forum 2017: "From Research to State-of-the-art Entertainment", Crans Montana, May 12th 2017
4. MGM Center of Human Movement Science: "Combining motion capture and medical imaging to improve diagnosis and treatment of Osteoarticular Structures", Mumbai, January 20th 2017
5. National Center for Biological Sciences: "Inside Real Virtuality", Bangalore, January 16th 2017
6. Digital Health 2016: The Role of Digital Health in Early Diagnosis and Prevention, June 24th 2016
7. Cannes Festival 2016: "Beyond Cinema: the Swiss Digital Revolution", Cannes, May 13th 2016
8. Lift 16: "Enter the Anti-Disciplinary Space: A Life in Motion", Geneva, February 11th 2016
9. Sundance Film Festival 2016: Round table "Hacking your senses", Park City, January 23rd 2016
10. GameZFestival 2015: "Real Virtuality Multiplayer", Zürich, October 4th 2015
11. 33rd International Conference on Biomechanics in Sports: "Hip and dancing", Round table "Sport and security", University of Poitiers, Poitiers, June 30th 2015

12. 33rd International Conference on Biomechanics in Sports: "Patient-specific analysis of shoulder kinematics and impingement in tennis players", University of Poitiers, Poitiers, June 29th 2015
13. Annual Conference of the French Society of Orthopaedic and Trauma Surgery (SOFOT): "Hip and dancing", Round table "Sport and security", Palais des Congrès, Paris, November 15th 2012
14. Prophysics User Meeting: "Motion Capture at Artanim: from 3D Animation to Movement Science", Orthopedic Hospital of Speising, Vienna, September 29th 2012
15. Meeting Agalma - Between art, science et psychoanalysis: "Body and movement: between art, science et technology", Swiss Institute of Roma, September 6th 2012
16. Workshop Centre d'Expression Numérique et Corporelle (CENC) - Les rapports entre l'art numérique et l'art corporel: "Capture de mouvement en temps réel", Fonderie Kugler, March 10th 2012
17. VIEW Conference 2011: "Using Motion Capture to Improve Analysis and Diagnosis of Joint Disorders", Torino, October 18th 2011
18. Annual Congress of the Swiss Orthopedic and Traumatology Society (SSOT): "Extreme Hip Motion in Professional Ballet Dancers", Lausanne, June 24th 2011
19. Lift 11: "From Ballet Dancing to 3D Hip Simulation", Geneva, February 4th 2011
20. European Federation of National Associations of Orthopaedics and Traumatology (EFFORT) meeting: "Professional Dancer's Hip: A Motion Capture Study", HUG, October 22nd 2010
21. European Society of Sports Traumatology, Knee Surgery & Arthroscopy (ESSKA) meeting: "Professional Dancer's Hip: A Motion Capture Study", HUG, June 1st 2010
22. Workshop on Semantic User Descriptions and their Influence on 3D Graphics and VR: "A Semantic-Driven Platform for Medical Applications", EPFL, November 13th 2008

14. CONGRESSES

1. 33rd International Conference on Biomechanics in Sports: "Impact of Strengthening Exercises on the Shoulder Joint", University of Poitiers, Poitiers, June 30th 2015
2. Annual Conference of Computer Assisted Radiology and Surgery (CARS) 2015: "A Simplified Technique to Estimate Rotator Cuff Elongation during Complex Shoulder Motion", Barcelona, June 27th 2015
3. Annual Congress of the French-speaking Society on Motion Analysis in Children and Adults (SOFAMEA): "Sexual Activity after Total Hip Arthroplasty (THA)", Geneva, February 6th 2015
4. International Symposium on 3D Analysis of Human Movement: "Analysis of Shoulder Impingement and Stability in Tennis Players", Lausanne, July 16th 2014
5. Annual Conference of the Swiss Orthopedic and Traumatology Society (SSOT): "Post-operative Kinematics Assessment in Patients after Total Hip Arthroplasty: A Pilot Study", St-Gallen, June 27th 2014
6. Annual Conference of the Swiss Orthopedic and Traumatology Society (SSOT): "Risk Assessment of Sexual Activity after Total Hip Arthroplasty (THA)", St-Gallen, June 27th 2014
7. Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery (CAOS): "A Patient-Specific Measurement Technique to Model the Kinematics of the Shoulder in Tennis Players", Milan, June 20th 2014
8. Annual Congress of the European Federation of National Associations of Orthopaedics and Traumatology (EFORT): "Sexual Activity after Total Hip Arthroplasty: A Motion Capture Study", London, June 5th 2014
9. Annual Conference of the International Society for Technology in Arthroplasty (ISTA): "Using Motion Capture and MRI to Accurately Determine the Hip Range of Motion in Everyday Life", Palm Beach, October 19th 2013
10. Annual Conference of the International Society for Technology in Arthroplasty (ISTA): "Congruence and Impingement in Total Hip Arthroplasty during Everyday Tasks", Palm Beach, October 19th 2013
11. Annual Conference of the Swiss Orthopedic and Traumatology Society (SSOT): "Assessment of Congruence and Impingement of Prosthetic Hips during Everyday Tasks", Lausanne, June 28th 2013

12. Annual Conference of Computer Assisted Radiology and Surgery (CARS) 2010: "An Integrated Platform for Hip Joint Osteoarthritis Analysis: Design, Implementation and Results", Geneva, June 24th 2010
13. Annual Conference of the Orthopaedic Research Society (ORS): "Professional Dancer's Hip: A Motion Capture Study", New Orleans, January 28th 2010
14. Annual Conference of the Swiss Orthopedic and Traumatology Society (SSOT): "Extreme Motion as a Potential Initiator of Hip Osteoarthritis", Geneva, June 25th 2009
15. Eurographics 2009: "Virtual Hip Joint: from Computer Graphics to Computer-Assisted Diagnosis", Munich, April 1st 2009
16. 3D Physiological Human Workshop: "Motion Study of the Hip Joint in Extreme Postures", Zermatt, December 4th 2008
17. International Symposium on 3D Analysis of Human Movement: "Analysis of Extreme Hip Motion in Professional Ballet Dancers", Amsterdam, October 15th 2008
18. Surgetica'2007: "A Semantic-Driven Clinical Examination Platform", Chambéry, September 17th 2007

15. SEMINARS

1. Master seminar in computer science: "Réalité virtuelle et augmentée : applications en médecine et dans le divertissement", University of Geneva, Geneva, April 9th 2018
2. Master seminar in computer science: "Research at Artanim: from medicine to virtual reality", University of Geneva, Geneva, November 28th 2016
3. Master seminar in computer science: "Research at Artanim: from medicine to virtual reality", University of Geneva, Geneva, Avril 4th 2016
4. Agalma's internal research seminar: "Introduction to Motion Capture and Applications", Agalma Foundation, Geneva, May 3rd 2015

16. WORKSHOPS / EVENTS ORGANISATION

1. "Le regard de Narcisse: la perception, le miroir et la mort", Le Cénacle, Geneva, November 15th 2013, seminar organizer
2. "Warburg seminar: between neuroscience, art and psychoanalysis", New York Psychoanalytic Institute, New York, October 12-13th 2013, seminar organizer
3. "Ferdinand de Saussure: entre neurosciences, psychanalyse et sémiologie", Le Cénacle, Geneva, October 3rd 2013, seminar organizer
4. Workshop: "Rencontre Agalma: Arts, sciences et psychanalyse", Institut Suisse de Rome, September 6-7th 2012, workshop organizer
5. The Freudian Unconscious: Between Neuroscience and Psychoanalysis, EPFL, October 28-29th 2011, workshop organizer
6. Swiss and International Alpine and Nordic University Skiing Championships (U-Games 2010), Veysonnaz, March 6-14th 2010, IT manager
7. 3D Physiological Human Workshop, Zermatt, November 28th - December 4th 2009, local committee co-chair
8. Swiss and International Alpine and Nordic University Skiing Championships (U-Games 2009), Veysonnaz, March 11-15th 2009, IT manager
9. 3D Physiological Human Workshop, Zermatt, December 1-4th 2008, local committee co-chair
10. Research Networking Workshop'08 (CO-ME), Zermatt, August 5-7th 2008, workshop chair

17. MEDIA

Press articles

1. L'odyssée pour géants de Gilles Jobin, May 2018, Le Temps
2. VR_I, le trip extracorporel qui fait danser Sundance, January 2018, 20 Minutes
3. Des géants virtuels mènent la danse, October 2017, Tribune de Genève
4. So kann es mit dem Schweizer Film nicht mehr weitergehen, June 2017, Frame Magazine
5. La virtualisation du secteur médical, révolution du siècle?, June 2017, Quotidien salon EPHJ-EPMT-SMT
6. Wenn das Kinoerlebnis zum Trip wird, May 2017, NZZ am Sonntag
7. D'Artanim à Dreamscape Immersive: Des chercheurs genevois sur les chemins de la réussite, March 2017, Fédération des Entreprises Romandes
8. Dreamscape tape dans l'oeil de Spielberg, February 2017, Tribune de Genève
9. Regisseur Spielberg investiert 11 Millionen in Schweizer Jungunternehmen, February 2017, Aargauer Zeitung
10. This is how multiplayer VR of the future will look like, January 2017, The Economic Times – Bangalore
11. A whole new world of virtual reality in the city, January 2017, Times News Network – Bangalore
12. Sneak peek into the real virtual world, January 2017, Deccan Chronicle – Bangalore
13. Plongée, Islande et réalité virtuelle, December 2016, Swissquote Magazine
14. Ces start-up suisses qui inventent le cinéma de demain, June 2016, Bilan
15. Schweizer Flüge in die Kinozukunft, May 2016, Berner Zeitung
16. Das Starsystem wankt, May 2016, NZZ
17. La réalité virtuelle sur la Croisette, May 2016, Tribune de Genève
18. Des Suisses brillent dans la réalité virtuelle, January 2016, Le Temps
19. La réalité virtuelle genevoise honorée à Los Angeles, September 2015, Tribune de Genève
20. Une immersion totale dans un monde virtuel, July 2015, Tribune de Genève
21. En visite chez un faux pharaon, April 2015, Le Temps
22. Radiologie du futur: L'exemple de la danseuse, March 2015, L'illustré (www.santedelafemme.ch)
23. Créer son clone devient possible, November 2014, Le Nouvelliste
24. La technologie 3D au service de la médecine, January 2012, Migros Magazine
25. Sportifs d'élite: se relever après une blessure, September 2011, Migros Magazine
26. Genève accueille un centre d'imagerie 3D unique en Suisse, September 2011, Tribune de Genève
27. "Il n'y a pas de limites à la capture du mouvement", February 2011, Tribune de Genève
28. "Adolescente, je rêvais de petites balles jaunes", July 2009, Tribune de Genève
29. Deux licences, un master et bientôt un doctorat..., March 2009, Tribune de Genève
30. Sport et carrière: l'art du rebond, June 2008, La Vie Protestante
31. MIRALab pilote l'humain virtuel animé, May 2008, Campus
32. Dossier recherche médicale, December 2007, L'Internat de Paris
33. Diagnostiquer les pathologies articulaires en 3D, October 2007, Le Monde
34. Vous cherchez?, June 2007, Tribune de Genève
35. Mon corps en 3D?, May 2007, Revue de Presse de l'UNIGE

Articles on Internet

1. [Dreamscape Immersive's Alien Zoo takes guests to an interstellar Jurassic Park](#), February 2018, The Verge
2. [Enter the Dreamscape: Location-Based VR Gets a New Player](#), February 2018, Wired

3. [Location Based VR Revs Up New Year](#), February 2018, Forbes
4. [Dreamscape's Alien Zoo Creates A Sense Of Awe And Wonder](#), February 2018, UploadVR
5. [Dreamscape Immersive Debuts Group VR Experience at Westfield Mall](#), February 2018, VRScout
6. [Play with frogcats and fight Sicari at Dreamscape Immersive's VR 'Alien Zoo'](#), February 2018, L.A. Biz
7. [Virtual Alien Jungle Raises Hopes for Malls, Hollywood Producers](#), February 2018, Bloomberg
8. [Virtual Reality Experience Debuts at Westfield Century City From Dreamscape Startup](#), February 2018, The Hollywood Reporter
9. [Virtual Reality Gets Social: At Sundance, Proof that the Future of VR is Shared Experiences](#), February 2018, IndieWire
10. [Swiss startups stir up public excitement](#), January 2018, startupticker.ch
11. [Dreamscape Raises \\$30 Million For Location-based VR](#), December 2017, UploadVR
12. [Dreamscape Immersive Partners With Nickelodeon for Location-Based VR Experience](#), December 2017, Variety
13. [Dreamscape VR startup ups Series B to \\$30 million, will make VR content with Nickelodeon](#), December 2017, L.A. Biz
14. [HoloMed: Mixed reality anatomical motion capture for healthcare](#), October 2017, HealthiAR
15. [Un deal pour booster la réalité virtuelle d'Artanim](#), October 2017, startupticker.ch
16. [HoloLens Provides New Tool For Sports Medicine](#), October 2017, VR Focus
17. [Plongée dans le mouvement](#), October 2017, Le Courrier
18. [World's Largest Cinema Chain, AMC, Leads \\$30M Investment to Bring VR to Movie Theaters](#), September 2017, Road to VR
19. [Virtual Reality Installations to Start Arriving at AMC Movie Theaters Next Year](#), September 2017, Wall Street Journal
20. [AMC Theaters Buys Into VR With Dreamscape Immersive Deal](#), September 2017, VR Scout
21. [Hoping to bring VR to the multiplex, AMC joins Spielberg in backing Culver City startup](#), September 2017, Los Angeles Times
22. [Coming Soon to AMC Theaters: Virtual Reality Experiences](#), September 2017, New York Times
23. [Hollywood and AMC theaters are betting on VR with Dreamscape Immersive](#), September 2017, The Verge
24. [AMC Strikes \\$20 Million Pact With Dreamscape Immersive for 6 VR Centers, Content Production](#), September 2017, Variety
25. [Réelle virtualité](#), September 2017, Platinn Magazine
26. [Hollywood studios dip their toes in virtual reality](#), July 2017, The Economist
27. [Une invention suisse séduit Spielberg](#), June 2017, Le Matin Dimanche
28. [5 Reasons Virtual Reality Will Survive and Thrive](#), May 2017, Creators
29. [Dreamscape's Big Dreams for Immersive VR](#), March 2017, Forbes
30. [Investissement du troisième type pour une start-up genevoise](#), February 2017, ICT Journal
31. [Dreamscape : quand Hollywood s'associe à Artanim pour amener la réalité virtuelle dans les grands centres commerciaux](#), February 2017, Enter the Rift
32. [VR Venture Dreamscape Immersive to Create Immersive Multiplex in Los Angeles](#), February 2017, VR Focus
33. [Une start-up genevoise de réalité virtuelle à l'assaut d'Hollywood](#), February 2017, RTS Info
34. [Dreamscape Immersive Wants to Bring Virtual Reality Multiplex to Los Angeles](#), February 2017, Variety
35. [Startup Backed by Spielberg and Studios Seeks to Create VR Experiences for Malls](#), February 2017, Wall Street Journal
36. [Opening the door of perception](#), January 2017, The Hindu
37. [This VR experience plugged with motion capture will shape your reality](#), January 2017, Stuff
38. [Act in your own avatar inside a virtual world at Mahalaxmi](#), January 2017, mid-day.com

39. [Q&A with Artanim](#), December 2016, The Standard magazine, Vicon Motion Systems Ltd
40. [Cannes Film Festival 2016: Our pick of the best VR films and experiences](#), May 2016, Wareable
41. [Real Virtuality : une expérience de VR pas comme les autres](#), March 2016, Les Numériques
42. [On a testé la réalité virtuelle de nouvelle génération à Laval Virtual](#), March 2016, 01net
43. [Les startups suisses se lancent dans la réalité virtuelle](#), March 2016, Bilan
44. [Swiss Startups Delving Into Virtual Reality](#), February 2016, Techcrunch
45. [Robert Redford séduit par une start-up genevoise](#), February 2016, Bilan
46. [Sundance 2016: Nine new VR pieces you need to know](#), January 2016, Los Angeles Times
47. [Virtual Reality at Sundance Offers a Glimpse Into the Future](#), January 2016, Paste Magazine
48. [This is the Future of VR Escape Rooms](#), January 2016, VR Scout
49. [Pillow Talk with Sylvain Chagué and Caecilia Charbonnier](#), January 2016, Adobe Pillow Talk
50. [The VR arcade of the future will look something like this](#), January 2016, Engadget
51. [Artanim the Swiss VR Experience](#), January 2016, swissnex
52. [Real Virtuality: "The Void" aus der Schweiz](#), January 2016, Rodo
53. [Die Zeit des Bastelns ist vorbei](#), January 2016, 20 Minuten
54. [How to use Virtual Reality in Tourism](#), January 2016, Gamification in tourism (blog)
55. [Watch Two Real People Pass A Torch In A Virtual Reality World](#), August 2015, Popular Science
56. [Somebody else's body](#), August 2015, Ken Perlin's blog
57. [VR 3.0: Artanim's Real Virtuality](#), August 2015, <http://johnwburge.com>
58. [From tradeshow to ancient pharaoh's tomb](#), August 2015, Red Lorry Yellow Lorry
59. [Playing with Real Virtuality at swissnex SF](#), August 2015, rangerrick.com
60. [Multi-user Wireless Virtual Reality System: Real Virtuality](#), August 2015, Technabob
61. [Multi-user Wireless Virtual Reality System: Real Virtuality](#), August 2015, GA2
62. [Hands-on: Real Virtuality Multiplayer VR demo](#), August 2015, Tested.com
63. [Vicon Vantage Mocap Cameras Will Make U.S. Debut at SIGGRAPH](#), July 2015, StudioDaily
64. [Real Virtuality will be at swissnex](#), July 2015, VR Focus
65. [Real Virtuality gives glimpse at VR's multiplayer future](#), July 2015, wired.co.uk
66. [Real Virtuality shows us what multiplayer VR might look like](#), July 2015, Engadget
67. [SIGGRAPH Finalist Releases Gameplay Footage](#), July 2015, VR Focus
68. [Real Virtuality : L'Oculus Rift poussé à son paroxysme](#), July 2015, jeuxvideo.com
69. [SIGGRAPH 2015 AR/VR Contest Finalist Shows Multiplayer Widescale Mixed Reality System](#), July 2015, Road To VR
70. [Real Virtuality : démonstration du mode Coopération](#), July 2015, Enter the Rift
71. [Real Virtuality selected for SIGGRAPH 2015 VR Competition](#), June 2015, VR Focus
72. [Vidéo : ce dispositif de réalité augmentée fait de vous un Indiana Jones des musées](#), April 2015, Konbini
73. [Kenzan et Artanim ajoutent le tactile à la réalité virtuelle](#), April 2015, Bilan
74. [A la lueur d'une torche la real Virtuality](#), April 2015, Enter The Rift
75. [Widescale Tracking and Real Props Make for an Even More Immersive VR Experience](#), April 2015, Road To VR
76. [Kenzan : projet mêlant réalité virtuelle et motion capture](#), April 2015, 3DVF
77. [Walking Through a Motion Capture Tomb With Oculus](#), April 2015, VR Scout
78. [An affordable full body studio grade 3D scanner](#), March 2014, Hackaday.com
79. [Hip Replacement Safe Sex](#), November 2013, Glory Surgery
80. [Motion capture used to assess best sexual positions after hip surgery](#), November 2013, wired.co.uk

81. [Swiss researchers look at how dangerous sex is for hip replacements](#), October 2013, news.com.au
82. [Sex Positions That Won't Break Your Artificial Hip](#), According To Science, October 2013, Popular Science
83. [Sex Positions after Hip Surgery](#), October 2013, about.com
84. [An orthopedic guide to the Kama-Sutra](#), September 2013, Ronan Kavanagh's Blog
85. [Les mouvements de votre hanche \(en titane\) durant l'activité sexuelle](#), September 2013, gurumed.org
86. [New Hip, Safe Sex Motion study](#), September 2013, Improbable Research

TV/Radio programs

1. Comment faire l'amour avec une prothèse de hanche ?, December 2017, Allodocteurs.fr / France 5
2. Virtual Reality: Technologische Revolution oder nur Spielerei?, November 2017, Einstein / SRF
3. Digitale Choreografie - Virtual Reality macht Tanz zum Erlebnis, October 2017, KulturPlatz / SRF
4. Pour la première fois Viviane Fontaine rencontre Caecilia Charbonnier, June 2017, Premier rendez-vous / RTS la 1ère
5. Notre invitée : Caecilia Charbonnier, March 2017, TTC / RTS
6. Une start-up genevoise de réalité virtuelle à l'assaut d'Hollywood, February 2017, TV news / RTS
7. La réalité virtuelle sous le sapin, December 2016, 3D Eco / Léman Bleu
8. La réalité virtuelle, August 2016, CQFD / RTS la 1ère
9. Laval Virtual: le boum des lunettes 3D, March 2016, France 3
10. Virtuelle Réalité, February 2016, Néophiles / RTS la 1ère
11. Real Virtuality on Daily Planet, February 2016, Discovery Channel
12. Le Festival Tous Ecrans permet d'expérimenter la réalité virtuelle, November 2015, TV news / RTS
13. Elle est belle la réalité virtuelle, September 2015, Nouvo / RTS
14. Nouvo: Genève accueille une conférence mondiale dédiée aux musées, April 2015, TV news & Nouvo / RTS
15. Les enfants malades du sport intensif, April 2015, 36.9° / RTS
16. 3D modeling of articulations, February 2014, Sport et Santé / Léman Bleu
17. The tennis player's shoulder, January 2014, Sport et Santé / Léman Bleu
18. Des chevaux de lumière, du dessin électrique et le kamasutra de la hanche, December 2013, Nouvo / RTS
19. Sex after hip transplants - scientists reveal new guidelines, November 2013, Reuters TV
20. Interview at VIEW Conference 2011, October 2011, Web TV OndeQuadre
21. La 3D révolutionne la médecine, July 2010, Nouvo / TSR
22. 3D Anatomical Human, November 2006, TV news / TSR

18. LANGUAGES

- French (mother tongue), English (written and oral fluently), German (excellent knowledge, written and oral), Spanish (excellent knowledge, written and oral)
- Language Diploma: Cambridge Advanced Certificate (Grade A)

19. FORMERLY

From 1996 to 1999: Professional tennis player (4th in Switzerland, WTA 276)

1999: Member of the Fed Cup Team Switzerland

20. REFERENCES

Prof. Nadia Magnenat-Thalmann

thalmann@miralab.ch

Tel: +41 (0)22 379 09 69

Director of MIRALab

University of Geneva

7, route de Drize

1227 Carouge, Switzerland

Prof. Robert Sumner

sumner@disneyresearch.com

Tel: +41 (0)44 632 73 78

Associate Director of Disney Research ZH

Disney Research ZH

Stampfenbachstrasse 48

8006 Zürich, Switzerland

Prof. Luc Soler

luc.soler@ircad.fr

Tel: +33 (0)3 88 11 90 00

Director of IRCAD

IRCAD

1, place de l'Hôpital

67091 Strasbourg, France

Prof. Christoph D. Becker

christoph.becker@hcuge.ch

Tel: +41 (0)22 372 70 01

Head of Radiology Department

University Hospitals of Geneva

Gabrielle-Perret-Gentil 4

1211 Geneva 14, Switzerland

Prof. Pierre J. Magistretti

pierre.magistretti@epfl.ch

Tel: +41 (0)21 693 95 02

Director of LNDC

Brain Mind Institute – EPFL

SV 2511, Station 19

1015 Lausanne, Switzerland

Dr. Christian De Saussure

christian@desaussure.ch

Tel: +41 (0)22 312 25 17

Member of the Foundation Council

Fondation Hans Wilsdorf

Place d'Armes 20

1227 Carouge, Switzerland

21. DATE AND SIGNATURE

Geneva, the 5th of May 2018



PUBLICATIONS LIST

Original articles

1. Charbonnier C, Chagué S, Kevelham B, Preissmann D, Kolo FC, Rime O, Lädermann A. *ArthroPlanner: A Surgical Planning Solution for Acromioplasty*, Int J CARS, In Press, 2018 (IF: **1.86**)
2. Charbonnier C, Lädermann A, Kevelham B, Chagué S, Hoffmeyer P, Holzer N. *Shoulder Strengthening Exercises Adapted to Specific Shoulder Pathologies Can Be Selected Using New Simulation Techniques: A Pilot Study*, Int J CARS, 13(2):321-330, 2018 (IF: **1.86**)
3. Mert E, Psikuta A, Arevalo M, Charbonnier C, Luible-Bär C, Bueno MA, Rossi R. *A validation methodology and application of 3D garment simulation software to determine the distribution of air layers in garments during walking measurement*, Measurement, In Press, 2017 (IF: **2.35**)
4. Charbonnier C, Chagué S, Kolo FC, Duthon VB, Menetrey J. *Multi-body Optimization with Subject-Specific Knee Models: Performance at High Knee Flexion Angles*, Comput Meth Biomech Biomed Eng, 20(14):1571-1579, 2017 (IF: **1.90**)
5. Luible C, Charbonnier C. *Fashioning Movement: a new approach to Fashion Design*, In Unfrozen - Design Research Today, Edited by Swiss Design Network, Triest Verlag, 2017 (IF: **0**)
6. Kolo FC, Schwitzguébel AJP, Kourhani A, Denard PJ, Charbonnier C, Lädermann A. *Fosbury Flop Tear of the Rotator Cuff: Diagnostic Assessment with Magnetic Resonance Arthrography*, Br J Radiol, 90(1077):20170146, 2017 (IF: **2.05**)
7. Cereatti A, Bonci T, Akbarshahi M, Aminian K, Barré A, Begon M, Benoit DL, Charbonnier C, Dal Maso F, Fantozzi S, Lin C-C, Lu T-W, Pandy MG, Stagni R, van den Bogert AJ, Camomilla V. *Standardization proposal of soft tissue artefact description for data sharing in human motion measurements*, J Biomech, 62:5-13, 2017 (IF: **2.43**)
8. Preissmann D, Charbonnier C, Chagué S, Antonietti JP, Llobera J, Ansermet F, Magistretti PJ. *A motion capture study to measure the feeling of synchrony in romantic couples and in professional musicians*, Front Psychol, 7:1673, 2016 (IF: **2.46**)
9. Lädermann A, Denard PJ, Tirefort J, Kolo FC, Chagué S, Cunningham G, Charbonnier C. *Does Surgery for Instability of the Shoulder Truly Stabilize the Glenohumeral Joint? A Prospective Comparative Cohort Study*, Medicine, 95(31):e4369, 2016 (IF: **2.13**)
10. Llobera J, Charbonnier C, Chagué S, Preissmann D, Antonietti JP, Ansermet F, Magistretti P. *The Subjective Sensation of Synchrony: An Experimental Study*, PLoS ONE, 11(2):e0147008, 2016 (IF: **3.23**)
11. Jaquet D, Bonnefoy-Mazure A, Armand S, Charbonnier C, Ziltener JL, Kayser B. *Range of motion and energy cost of locomotion of the late medieval armoured fighter: confronting the medieval technical literature with modern movement analysis*, Hist Meth, 49(3):1-18, 2016 (IF: **0.72**)
12. Lädermann A, Chagué S, Kolo FC, Charbonnier C. *Kinematics of the Shoulder Joint in Tennis Players*, J Sci Med Sport, 19(1):56-63, 2016 (IF: **3.19**)
13. Christofilopoulos P, Charbonnier C. *CORR Insights®: High Rates of Interest in Sex in Patients With Hip Arthritis*, Clin Orthop Relat Res, 374(2):300-301, 2016 (IF: **2.77**)
14. Lädermann A, Gueorguiev B, Charbonnier C, Stimec BV, Fasel JHD, Zderic I, Hagen J, Walch G. *Scapular Notching on Kinematic Simulated Range of Motion after Reverse Shoulder Arthroplasty is not the Result of Impingement in Adduction*, Medicine, 94(38):e1615, 2015 (IF: **5.72**)
15. Lädermann A, Charbonnier C. *Kinematics of the Shoulder Joint*, Leading Opinions, 2015 (IF: **0**)
16. Schmid J, Chênes C, Chagué S, Hoffmeyer P, Christofilopoulos P, Bernardoni M, Charbonnier C. *MyHip: Supporting Planning and Surgical Guidance for a Better Total Hip Arthroplasty: A Pilot Study*, Int J CARS, 10(10):1547-1556, 2015 (IF: **1.71**)
17. Charbonnier C, Chagué S, Kolo FC, Lädermann A. *Shoulder Motion During Tennis Serve: Dynamic and Radiological Evaluation Based on Motion Capture and Magnetic Resonance Imaging*, Int J CARS, 10(8):1289-1297, 2015 (IF: **1.71**)
18. Charbonnier C, Chagué S, Schmid J, Kolo FC, Bernardoni M, Christofilopoulos P. *Analysis of Hip Range of Motion in Everyday Life: A Pilot Study*, Hip Int, 25(1):82-90, 2015 (IF: **0.76**)

19. Charbonnier C, Chagué S, Kolo FC, Chow JCK, Lädermann A. *A Patient-Specific Measurement Technique to Model Shoulder Joint Kinematics*, Orthop Traumatol Surg Res, 100(7):715-719, 2014 **(IF: 1.26)**
20. Charbonnier C, Chagué S, Kolo FC, Chow JCK, Lädermann A. *Évaluation personnalisée de l'épaule par modélisation de la cinétique articulaire*, Revue de chirurgie orthopédique et traumatologique, 100(7):521, 2014 **(IF: 0)**
21. Charbonnier C, Chagué S, Ponzoni M, Bernardoni M, Hoffmeyer P, Christofilopoulos P, *Sexual Activity after Total Hip Arthroplasty: A Motion Capture Study*, J Arthroplasty, 29(3):640-647, 2014 **(IF: 2.67)**
22. Duthon VB, Charbonnier C, Kolo FC, Magnenat-Thalmann N, Becker CD, Bouvet C, Coppens E, Hoffmeyer P, Menetrey J, *Correlation of Clinical and MRI Findings in Hips of Elite Female Ballet Dancers*, Arthroscopy: The Journal of Arthroscopic and Related Surgery, 29(3):411-419, 2013 **(IF: 3.21)**
23. Kolo FC, Charbonnier C, Pfirrmann CWA, Duc SR, Lubbeke A, Duthon VB, Magnenat-Thalmann N, Hoffmeyer P, Menetrey J, Becker CD, *Extreme Hip Motion in Professional Ballet Dancers: Dynamic and Morphologic Evaluation Based on MRI*, Skeletal Radiol, 42(5):689-698, 2013 **(IF: 1.51)**
24. Duthon VB, Charbonnier C, Kolo FC, Magnenat-Thalmann N, Becker CD, Bouvet C, Coppens E, Hoffmeyer P, Menetrey J, *Correlation of Clinical and MRI Findings in Professional Dancers' Hip: A New Femoro-acetabular Impingement?*, Arthroscopy: The Journal of Arthroscopic and Related Surgery, 28(6):e53, Suppl. 2, 2012 **(IF: 3.21)**
25. Charbonnier C, Kolo FC, Duthon VB, Magnenat-Thalmann N, Becker CD, Hoffmeyer P, Menetrey J, *Assessment of Congruence and Impingement of the Hip Joint in Professional Ballet Dancers: A Motion Capture Study*, Am J Sports Med, 39(3):557-566, 2011 **(IF: 4.36)**
26. Charbonnier C, Magnenat-Thalmann N, Becker CD, Hoffmeyer P, Menetrey J, *An Integrated Platform for Hip Joint Osteoarthritis Analysis: Design, Implementation and Results*, Int J CARS, 5(4):351-358, 2010 **(IF: 1.71)**
27. Charbonnier C, Assassi L, Volino P, Magnenat-Thalmann N, *Motion Study of the Hip Joint in Extreme Postures*, Vis Comput, 25(9):873-882, 2009 **(IF: 0.96)**
28. Assassi L, Charbonnier C, Schmid J, Volino P, Magnenat-Thalmann N, *From MRI to Anatomical Simulation of the Hip Joint*, Computer Animation and Virtual Worlds Journal, Special Issue on Physiological Human, 20(1):53-66, 2009 **(IF: 0.46)**

Book chapters

1. Lädermann A, Bonnevalle N, Charbonnier C, *The Shoulder in Tennis: The Different Types of Impingement & Instability*, In Shoulder Concepts 2016 – Arthroscopy, Arthroplasty & Fractures, Edited by P. Boileau Sauramps Medical Montpellier.

Theses

1. Charbonnier C, Combining Medical Imaging and Motion Capture for the Dynamic Analysis of Personalized Osteoarticular Structures, Privat-Doctent Thesis, University of Geneva, 2017
2. Charbonnier C, Extreme Hip Movements Based on Optical Motion Capture, PhD Thesis, University of Geneva, 2010
3. Charbonnier C, Lo C, Virtual Mirror: A real-time motion capture application for virtual-try-on, M.Sc. Thesis, EPFL, 2006

International peer reviewed conference proceedings

1. Mert E, Psikuta A, Joshi A, Arevalo M, Charbonnier C, Luible-Bär C, Annaheim S, Rossi R. *The distribution of air gap thickness and the contact area during Alpine skiing*, Proc. of 9th Int. Conf. on 3D Body Scanning Technologies, Lugano, Switzerland, October 2018
2. Elias de Oliveira M, Galvan Debarba H, Lädermann A, Chagué S, Charbonnier C. *Development of a Hand-Eye Calibration Method for Augmented Reality Applied to Computer-Assisted Orthopedic Surgery*, 32nd International Congress of Computer Assisted Radiology and Surgery, Heidelberg, Germany, Int J CARS, June 2018
3. Galvan Debarba H, Elias de Oliveira M, Lädermann A, Chagué S, Charbonnier C. *Augmented Reality Visualization of Joint Movements for Physical Examination and Rehabilitation*, Proc. 2018 IEEE Virtual Reality, IEEE Comput. Soc, March 2018

4. Galvan Debarba H, Elias de Oliveira M, Läderrmann A, Chagué S, Charbonnier C. *Tracking a Consumer HMD with a Third Party Motion Capture System*, Proc. 2018 IEEE Virtual Reality, IEEE Comput. Soc, March 2018
5. Läderrmann A, Kolo FC, Chagué S, Charbonnier C. *Is acromioplasty planification useful? A prospective randomized trial*, XIVe Congrès de la Société Francophone d'Arthroscopie, Paris, France, Revue de chirurgie orthopédique et traumatologique, 103(8):S268, September 2017
6. Charbonnier C, Kolo FC, Läderrmann A. *Acromioplasty Planification: A Randomized Prospective Study*, 27th Annual Congress of the European Shoulder and Elbow Society (SECEC), Berlin, Germany, September 2017
7. Oztürk M, Paulin E, Cunningham G, Charbonnier C, Dupuis Lozeron E, Holzer N. *Indication for Clavicle Fracture Osteosynthesis Based on Shortening: How to Measure it?*, 27th Annual Congress of the European Shoulder and Elbow Society (SECEC), Berlin, Germany, September 2017
8. Cunningham G, Charbonnier C, Chagué S, Läderrmann A, Sonnabend DH. *Are Pendular Shoulder Exercises Worthwhile?*, 27th Annual Congress of the European Shoulder and Elbow Society (SECEC), Berlin, Germany, September 2017
9. Cunningham G, Charbonnier C, Chagué S, Läderrmann A, Sonnabend DH. *Are Pendular Shoulder Exercises Worthwhile?*, 18th EFORT Congress, Vienna, Austria, June 2017. Cunningham G, Charbonnier C, Chagué S, Läderrmann A, Sonnabend DH, *Are Pendular Shoulder Exercises Worthwhile?*, 18th EFORT Congress, Vienna, Austria, June 2017
10. Mert E, Psikuta A, Arevalo M, Charbonnier C, Luible C, Bueno MA, Rossi RM. *Quantitative validation of 3D garment simulation software for determination of air gap thickness in lower body garments*, IOP Conf. Series: Materials Science and Engineering, 254, May 2017
11. Cunningham G, Charbonnier C, Chagué S, Läderrmann A, Sonnabend DH, *Are Pendular Shoulder Exercises Worthwhile?*, 18th EFORT Congress, Vienna, Austria, June 2017
12. Cunningham G, Charbonnier C, Chagué S, Läderrmann A, Sonnabend DH, *Are Pendular Shoulder Exercises Worthwhile?*, 2017 AAOS Meeting, San Diego, California, March 2017
13. Charbonnier C, Chagué S, Läderrmann A, Holzer N. *Évaluation des effets potentiellement délétères d'exercices de l'épaule en fonction des pathologies rencontrées*, Congrès de la Société Francophone d'Arthroscopie 2016, Paris, France, Revue de chirurgie orthopédique et traumatologique, 102(8):S307, December 2016
14. Läderrmann A, Denard PJ, Tirefort J, Chagué S, Cunningham G, Charbonnier C. *Est-ce que les stabilisations d'épaule stabilisent les épaules ?*, Congrès de la Société Francophone d'Arthroscopie 2016, Paris, France, Revue de chirurgie orthopédique et traumatologique, 102(8):S284-S285, December 2016
15. Cunningham G, Charbonnier C, Chagué S, Läderrmann A, Sonnabend DH. *Est-ce que les exercices pendulaires selon Codman sont utiles ?*, Congrès de la Société Francophone d'Arthroscopie 2016, Paris, France, Revue de chirurgie orthopédique et traumatologique, 102(8):S296, December 2016
16. Charbonnier C, Chagué S, Kevelham B, Kolo FC, Läderrmann A. *ArthroPlanner: A Surgical Planning Solution for Acromioplasty*, 30th International Congress of Computer Assisted Radiology and Surgery, Heidelberg, Germany, Int J CARS, June 2016
17. Chagué S, Charbonnier C. *Real Virtuality: A Multi-User Immersive Platform Connecting Real and Virtual Worlds*, VRIC 2016 Virtual Reality International Conference - Laval Virtual, Laval, France, ACM New York, NY, USA, March 2016
18. Chagué S, Charbonnier C. *Digital Cloning for an Increased Feeling of Presence in Collaborative Virtual Reality Environments*, Proc. of 6th Int. Conf. on 3D Body Scanning Technologies, Lugano, Switzerland, October 2015
19. Charbonnier C, Menetrey J. *Dancing as a Potential Initiator of Early Hip Osteoarthritis*, 33rd International Conference on Biomechanics in Sports, Poitiers, France, June 2015
20. Charbonnier C, Kevelham B, Chagué S, Läderrmann A, Ziltener JL, Hoffmeyer P, Holzer N. *Impact of Shoulder Strengthening Exercises on the Shoulder Joint*, 33rd International Conference on Biomechanics in Sports, Poitiers, France, June 2015
21. Charbonnier C, Kevelham B, Chagué S, Läderrmann A, Ziltener JL, Hoffmeyer P, Holzer N. *A Simplified Technique To Estimate Rotator Cuff Elongation During Complex Shoulder Motion*, 29th International Congress of Computer Assisted Radiology and Surgery, Barcelona, Spain, Int J CARS, June 2015

22. Holzer N, Chagué S, Lädermann A, Ziltener JL, Hoffmeyer P, Charbonnier C. *Impact of Shoulder Strengthening Exercises on Subacromial Space Height and on Articular Cartilages and Labrum Compression Using Motion Capture Analysis*, 16th EFORT Congress, Prague, Czech Republic, June 2015
23. Charbonnier C, Chagué S, Ponzoni M, Bernardoni M, Hoffmeyer P, Christofilopoulos P. *Activités sexuelles après arthroplastie totale de hanche (PTH)*, XIV congrès de la SOFAMEA, Geneva, Switzerland, February 2015
24. Charbonnier C, Chagué S, Kolo FC, Lädermann A. *Analysis of Shoulder Impingement and Stability in Tennis Players*, Proceedings of the 13th International Symposium on 3D Analysis of Human Movement, Lausanne, Switzerland, July 2014
25. Renaud A, Charbonnier C, Chagué S. *3DinMotion - A mocap based interface for real time visualisation and sonification of multi-user interactions*, New Interfaces for Musical Expression (NIME) Conference, London, UK, June 2014
26. Schmid J, Chênes C, Chagué S, Hoffmeyer P, Christofilopoulos P, Bernardoni M, Charbonnier C. *Computer-assisted Total Hip Arthroplasty: from Pre-operative Planning to Post-operative Assessment*, 14th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery (CAOS), Milan, Italy, June 2014
27. Charbonnier C, Chagué S, Kolo FC, Lädermann A. *A Patient-Specific Measurement Technique to Model the Kinematics of the Shoulder in Tennis Players*, 14th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery (CAOS), Milan, Italy, June 2014
28. Charbonnier C, Chagué S, Ponzoni M, Bernardoni M, Hoffmeyer P, Christofilopoulos P. *Sexual Activity after Total Hip Arthroplasty: A Motion Capture Study*, 15th EFORT Congress, London, UK, June 2014
29. Charbonnier C, Chagué S, Ponzoni M, Bernardoni M, Hoffmeyer P, Christofilopoulos P. *Congruence and Impingement in Total Hip Arthroplasty during Everyday Tasks*, 26th Annual Congress of the International Society of Technology in Arthroplasty, Miami, Florida, Bone & Joint J, 95-B(Supp 34):27, October 2013 **(IF : 2.73)**
30. Christofilopoulos P, Chagué S, Schmid J, Bartolone P, Hoffmeyer P, Charbonnier C. *Using Motion Capture and MRI to Accurately Determine the Hip Range of Motion in Everyday Life*, 26th Annual Congress of the International Society of Technology in Arthroplasty, Miami, Florida, Bone & Joint J, 95-B(Supp 34):29, October 2013 **(IF : 2.73)**
31. Lädermann A, Chagué S, Kolo FC, Charbonnier C. *Kinematic Modeling of the Shoulder in Tennis Players*, 24th Annual Congress of the European Shoulder and Elbow Society (SECEC), Madrid, Spain, September 2013
32. Duthon VB, Kolo FC, Charbonnier C, Duc SR, Pfirrmann CWA, Magnenat-Thalmann N, Becker CD, Hoffmeyer P, Menetrey J. *Correlation of Clinical and MRI Findings in Professional Dancers' Hip: A New Femoro-acetabular Impingement?*, 8th Biennial ISAKOS Congress, Rio De Janeiro, Brazil, May 2011
33. Charbonnier C, Kolo FC, Duthon VB, Magnenat-Thalmann N, Becker CD, Hoffmeyer P, Menetrey J. *Professional Dancer's Hip: A Motion Capture Study*, Trans Orthop Res Soc, New Orleans, Louisiana, March 2010
34. Duthon VB, Kolo FC, Charbonnier C, Magnenat-Thalmann N, Duc SR, Pfirrmann CWA, Becker CD, Hoffmeyer P, Menetrey J. *Correlation of Clinical and MRI Findings in Professional Dancers' Hip: A New Femoro-acetabular Impingement?*, Trans Orthop Res Soc, New Orleans, Louisiana, March 2010
35. Charbonnier C, Schmid J, Kolo FC, Magnenat-Thalmann N, Becker CD, Hoffmeyer P. *Virtual Hip Joint: from Computer Graphics to Computer-Assisted Diagnosis*, Eurographics 2009 - First Medical Prize, Eurographics Association, Munich, Germany, pp. 1-4, April 2009
36. Charbonnier C, Lyard E, Magnenat-Thalmann N. *Analysis of Extreme Hip Motion in Professional Ballet Dancers*, Proceedings of the 10th International Symposium on 3D Analysis of Human Movement, Amsterdam, Netherlands, October 2008
37. Magnenat-Thalmann N, Charbonnier C, Schmid J. *Multimedia Application to the Simulation of Human Musculoskeletal System: A Visual Lower Limb Model from Multimodal Captured Data*, Proceedings of the IEEE International Workshop on Multimedia Signal Processing, Cairns, Australia, pp. 520-525, October 2008
38. Charbonnier C, Gilles B, Magnenat-Thalmann N. *A Semantic-Driven Clinical Examination Platform*, In *Surgetica'2007, Computer-Aided Medical Interventions: Tools and Applications*, Chambéry, France, pp. 183-189, September 2007

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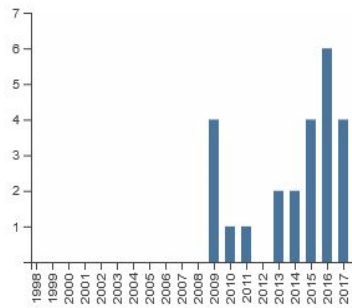
1. Oztürk M, Holzer N, Cunningham G, Paulin E, Dupuis Lozeron E, Charbonnier C. *Indication for Clavicle Fracture Osteosynthesis Based on Shortening: How to Measure it?*, Swiss Med Wkly, 147(Suppl. 223):28S, 2017 (IF: 1.82)
2. Cunningham G, Charbonnier C, Chagué S, Lädermann A, Sonnabend DH. *Are Pendular Shoulder Exercises Worthwhile?*, Swiss Med Wkly, 147(Suppl. 223):41S, 2017 (IF: 1.82)
3. Luible C, Charbonnier C. *Fashioning Movement: a new approach to Fashion Design*, Unfrozen Symposium, 1st SDN Design Research Winter Summit, Giessbachwork, Giessbach, Switzerland, January 2016
4. Holzer N, Chagué S, Lädermann A, Ziltener JL, Hoffmeyer P, Charbonnier C. *High differences in subacromial space height and gleno-humeral compression according to shoulder muscle exercise type*, Swiss Med Wkly, Suppl. 210, 145:32S, 2015 (IF: 2.09)
5. Charbonnier C, Chagué S, Chênes C, Hoffmeyer P, Christofilopoulos P, Bernardoni M, Schmid J. *Post-operative Kinematics Assessment in Patients after Total Hip Arthroplasty: A Pilot Study*, Swiss Med Wkly, Suppl. 204, 144:37S, 2014 (IF: 2.09)
6. Charbonnier C, Chagué S, Ponzoni M, Bernardoni M, Hoffmeyer P, Christofilopoulos P. *Risk Assessment of Sexual Activity after Total Hip Arthroplasty (THA)*, Swiss Med Wkly, Suppl. 204, 144:35S, 2014 (IF : 2.09)
7. Lädermann A, Chagué S, Kolo FC, Charbonnier C. *Kinematic of the Shoulder Joints in Professional Tennis Players*, Swiss Med Wkly, Suppl. 204, 144:14S, 2014 (IF: 2.09)
8. Schmid J, Chênes C, Chagué S, Christofilopoulos P, Charbonnier C, Bernardoni M, *MyHip: Personalized Planning and Surgical Guidance in Total Hip Arthroplasty*, Swiss Congress for Health Professions (SCHP), Bern, Switzerland, March 2014
9. Charbonnier C, Chagué S, Ponzoni M, Bernardoni M, Hoffmeyer P, Christofilopoulos P, *Assessment of Congruence and Impingement of Prosthetic Hips during Everyday Tasks*, Swiss Med Wkly, Suppl. 198, 143:32S-33S, 2013 (IF: 2.09)
10. Christofilopoulos P, Chagué S, Schmid J, Hoffmeyer P, Charbonnier C, *Hip Range of Motion in Everyday Life*, Swiss Med Wkly, Suppl. 198, 143:27S, 2013 (IF: 2.09)
11. Christofilopoulos P, Chagué S, Schmid J, Bartolone P, Hoffmeyer P, Charbonnier C, *Accuracy Assessment of Hip Clinical Exam*, Swiss Med Wkly, Suppl. 198, 143:27S, 2013 (IF: 2.09)
12. Charbonnier C, Kolo FC, Duc SR, Pfirrmann CWA, Menetrey J, Duthon VB, Magnenat-Thalmann N, Becker CD, Hoffmeyer P, *Extreme Motion as a Potential Initiator of Hip Osteoarthritis*, Swiss Med Wkly, Suppl. 173, 139(23-24):18S, 2009 (IF: 2.09)
13. Duthon VB, Menetrey J, Kolo FC, Charbonnier C, Duc SR, Pfirrmann CWA, Magnenat-Thalmann N, Becker CD, Hoffmeyer P, *Professional Dancers' Hip: Correlation of Clinical and MRI Findings*, Swiss Med Wkly, Suppl. 173, 139(23-24):18S, 2009 (IF: 2.09)

Other articles

1. Charbonnier C, Trouche V, *Real Virtuality: Perspectives Offered by the Combination of Virtual Reality Headsets and motion Capture*, White Paper, August 2015
2. Charbonnier C, *Des athlètes du SAS clonés virtuellement pour étudier le confort de vêtements de sport*, SAS Magazin, 2014
3. Charbonnier C, *Sex after Hip Implants: A Guide Based on Motion Capture*, The Standard magazine, Vicon Motion Systems Ltd, 2014

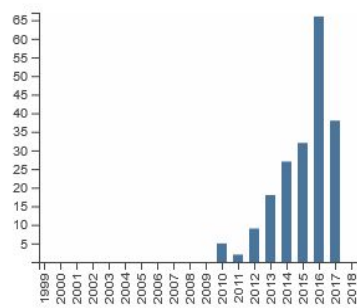
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