

Caecilia Charbonnier - CV



1. PERSONAL DETAILS

Last name: **CHARBONNIER**

First name: **Caecilia**

Sex: Female

Birthdate: 7 December 1981

Place of birth: Geneva

Nationality: Swiss and French

Canton of origin: Geneva

Marital status: Single

Number of children: 0

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

Artanim Foundation – Switzerland

Co-Founder, President and Research Director

04.2011

Co-founder, President and Research Director of Artanim, a leading center specialized in motion capture technologies.

Fundraising and development of research projects (EU program, CTI/Innosuisse, SNSF) in computer graphics, virtual reality and medicine.

Creator and producer of award-winning audiovisual projects and events (live performances, VR/AR experiences, museal installations, etc.). Director of immersive experiences such as *Real Virtuality: Immersive Explorers*, *VR_I, Geneva 1850*, *Abord the Mayflower* and *Escalade: The Darkest Night*.

Motion capture services (full performance capture) for films, video games, etc.

Development of educational programs in motion capture, 3D animation, biomechanics and medical imaging.

Website: www.artanim.ch

Dreamscape Immersive Inc. – USA

Co-Founder and Consultant

07.2023

Co-founder of Dreamscape Immersive Inc., a leading VR company backed by Hollywood heavyweights leveraging Artanim's *Real Virtuality* technology.

Former CTO and Chief Innovation Officer of the company, now acting as consultant for all things related to technological development, R&D and innovation strategy of immersive VR products for location-based entertainment, education and training.

Acting as well on a project-basis as head of production and director of immersive experiences for location-based entertainment, immersive classrooms and retail applications.

Website: www.dreamscapeimmersive.com and www.dreamscapelearn.com

School of Arts, Media and Engineering, Herberger Institute, Arizona State University – USA

Professor of Practice

07.2020

Faculty of Medicine, University of Geneva – Switzerland

Senior Lecturer

05.2021

Virtual Switzerland Association – Switzerland

Founder and President

10.2016

Founder and President of the Virtual Switzerland Association, the national network that aims to be a catalyst of innovation in the fields of immersive technologies and virtual environments simulation by promoting and facilitating the adoption, development, and technological transfer of immersive technologies among academic and industrial Swiss players.

This network was funded by Innosuisse as a National Thematic Network, period 2017-2020, CHF 1,320,000.

3. DIPLOMAS

Federal Maturity, type C

2001

License in Information and Communication Systems (master equivalent)

2001-2005

with a minor in International Relations (HEI)

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-Docent (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

Faculty of Medicine, University of Geneva – Switzerland*Privat-docent***2018-2021****Dreamscape Immersive Inc. – USA***Co-Founder and CIO***2019-2023**

Co-founder and Chief Innovation Officer of Dreamscape Immersive Inc., a leading VR company backed by Hollywood heavyweights leveraging Artanim's *Real Virtuality* technology.

Supervision of the technological development and R&D of the company in close collaboration with the CTO, responsible for the innovation strategy and the development of innovative VR products at the technical and artistic interface for location-based entertainment and education.

Supervision of the Dreamscape Immersive Europe's content team, head of production and director of immersive experiences such as *The Clockwork Forest* developed in partnership with Audemars Piguet.

CEO of Dreamscape Immersive Europe Sàrl (subsidiary), management and supervision of the administration, subsidiary's activities, finances and human resources.

Website: www.dreamscapeimmersive.com and www.dreamscapelearn.com

*Co-Founder and CTO***2016-2019**

Acting as Co-founder and Chief Technology Officer of Dreamscape Immersive Inc. Supervision of the technological development and R&D of the company, responsible for the development of the immersive multi-user VR platform for location-based entertainment.

CEO of Dreamscape Immersive Europe Sàrl (subsidiary), management and supervision of the administration, subsidiary's activities, finances and human resources.

Artanim Interactive Sàrl – Switzerland*Co-Founder and CEO***2015-2016**

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

ArtiFX Sàrl – Switzerland*Co-Founder and Co-Director***2010-2015**

Co-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 camerawoman both terrestrial and underwater (PADI Rescue diver).

Portfolio available at: www.artifx.ch

Agalma Foundation – Switzerland*Secretary General***2010-2013**

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 a TV show series and of international conferences and events.

Antinea Foundation – Switzerland***Member of the Communication Team*****2006-2012**

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

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

Webmaster of "The Changing Oceans Expedition" website.

ArtificiElles Sàrl – Switzerland***Co-Founder and Co-Director*****2009-2011**

Co-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 visits, movies and commercials, etc.

Portfolio available at: www.charbonnier.ch

MIRALab, University of Geneva – Switzerland***Research Assistant*****2004-2010**

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.

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 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.

Project Manager**2005-2006**

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.

Télévision Suisse Romande (TSR) – Switzerland***Consultant*****2001-2009**

Consultant and live interviews for sport-related programs, such as Roland-Garros and Wimbledon.

Jet d'Encres, University of Geneva – Switzerland***Editor in Chief*****2002-2004**

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.

Tribune de Genève – Switzerland**Trainee****2002**

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 223O323, 3 ECTS credits, Faculty of medicine, University of Geneva, since 2014 (28 hours / year)
- Immersive technologies: Applications in Medicine, Entertainment and Education, M.Sc. seminar, Faculty of computer science, University of Geneva, April 25th, 2022 (2 hours)
- Immersive technologies: Is the future entirely virtual?, M.Sc. seminar, Faculty of computer science, University of Geneva, November 9th, 2020 (2 hours)
- Réalité virtuelle et augmentée : applications en médecine et dans le divertissement, M.Sc. seminar, Faculty of computer science, University of Geneva, November 25th, 2019 (2 hours)
- Réalité virtuelle et augmentée : applications en médecine et dans le divertissement, M.Sc. seminar, Faculty of computer science, University of Geneva, April 9th, 2018 (2 hours)
- Visualisation et reconstruction 3D en imagerie médicale: techniques et applications, B.M. course 223O322, 3 ECTS credits, Faculty of medicine, University of Geneva, years 2015-2017 (14 hours / year)
- Research at Artanim: from medicine to virtual reality, M.Sc. seminar, Faculty of computer science, University of Geneva, November 28th, 2016 (2 hours)
- Research at Artanim: from medicine to virtual reality, M.Sc. seminar, Faculty of computer science, University of Geneva, Avril 4th, 2016 (2 hours)
- Mouvement et la mode, M.A workshop Media Design, 3 ECTS credits, Geneva University of Art and Design, semester 2016-2017 (9 hours)
- 3D Modeling and Animation, M.A course Media Design, 3 ECTS credits, Geneva University of Art and Design, years 2014-2016 (30 hours / year)
- 3D Modeling and Animation, M.A course 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 World Confederation for Physical Therapy 2019: "3D simulation and VR/AR: New research and simulation tools", May 13th, 2019 (3 hours)
- Workshop World VR Forum 2018: "Introduction to motion capture", June 9th, 2018 (2 hours)

- 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)

Member of thesis jury

- Meryam Butt, "L'intelligence artificielle au service de la détection, de la position et du mouvement : une assistance pour la technique en radiologie médicale?", Master, 2020, Master of Science conjoint HES-SO - UNIL en Sciences de la santé, HES-SO
- Matteo Mancuso, "Evaluation and robotic simulation of the glenohumeral joint", PhD, 2020, Faculty of Science and Engineer Techniques, EPFL
- Arianna Religi, "Ground UV irradiance and 3D rendering techniques to predict anatomical solar UV exposure in skin cancer research and prevention", PhD, 2018, Faculty of Science, Department of Computer Science, University of Geneva

Students 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 11 researchers and 2 administrative collaborators. 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
- Medical imaging, movement science and methods in virtual reality rehabilitation
- 3D body scanning and motion capture from different technologies (optical, inertial, markerless)
- Virtual and augmented reality, real-time motion interaction and 3D interactive characters animation

Since 2011, 7'556'000 CHF in competitive third-party funding was obtained to finance the activities of the laboratory. List of completed or ongoing R&D projects:

Real Virtuality

Duration: April 2015 - December 2023

Funding: Artanim Foundation

Description: Development of a multi-user platform combining VR headsets, full-body motion capture and a real-life stage set incorporating haptic elements for location-based VR applications.

Char4VR

Duration: September 2020 - December 2023

Funding: Artanim Foundation

Description: Development of a framework for the animation of interactive virtual characters using a combination of techniques based on machine learning and cognitive science.

MoRehab XR

Duration: August 2020 - December 2023

Funding: Artanim Foundation

Partners: Dr. Alexandre Lädermann, La Tour Hospital – Division of Orthopedic and Trauma Surgery, Antoine Seurot, La Tour Hospital – Service of Physical Therapy

Description: Development of a rehabilitation system based on motion tracking and interactive VR games for the monitoring of the patient and gamification of the rehabilitation program.

Markerless Mocap

Duration: September 2020 - September 2023

Funding: Artanim Foundation

Partner: Vicon Motion System Ltd.

Description: Development of a markerless solution for the capture of users in LBVR scenarios based on Machine Learning techniques and synthetic datasets.

Mocap RSA

Duration: January 2022 - June 2023

Funding: FORE Foundation / La Tour Hospital - CHF 25,000

Main applicant: Dr. Caecilia Charbonnier, Artanim Foundation

Partners: Dr. Alexandre Lädermann, La Tour Hospital – Division of Orthopedic and Trauma Surgery, Prof. Jérôme Schmid – Geneva Health School (HEdS)

Description: Motion capture and simulation of reverse shoulder prostheses to evaluate post-operative ranges of motion during daily living activities.

Minimally invasive ablation of liver malignancies using a new concept of near field-tailored MR-guided high intensity focused ultrasound

Duration: July 2019 - June 2023

Funding: SNF project n°320030_185308 / 1 - CHF 363,320 (total budget) and CHF 90,830 (Artanim's budget)

Main applicant: Prof. Sylvain Terraz, University Hospitals of Geneva – Service of Radiology

Co-applicant: Prof. Rares Salomir, University Hospitals of Geneva – Service of Radiology

Partners: Dr. Caecilia Charbonnier, Artanim Foundation, Dr. Romain Breguet University Hospitals of Geneva – Service of Radiology, Prof. Arnaud Roth, University Hospitals of Geneva – Service of Oncology

Description: Treatment of liver malignancies with MRgHIFU using fast volumetric ablation.

VR+4CAD: Closing the VR-loop around the human in Computer-Aided Design

Duration: June 2020 - November 2021

Funding: Innosuisse project n°42975.1 IP-ICT - CHF 398,660 (total budget) and CHF 209,237 (Artanim's budget)

Main applicant: Dr. Caecilia Charbonnier, Artanim Foundation

Co-applicant: Prof. Silvia Giordano, Scuola universitaria professionale della Svizzera italiana (SUPSI)

Description: VR+4CAD aims to tackle issues limiting the use of VR in manufacture and design such as the lack of full circle interoperability between VR and CAD, the friction experienced when entering a VR world and the limited feedback provided about the experience for future analysis.

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: Prof. Minerva Becker, University Hospitals of Geneva – Service of Radiology

Partners: Dr. Caecilia Charbonnier, Artanim Foundation, Dr. Habib Zaidi, University Hospitals of Geneva – Service of Nuclear Medicine, Dr. Marc Pusztaszeri, University of Geneva – Department of Clinical Pathology, Dr. Pavel Dulguerov, University Hospitals of Geneva – Unit of Rhinology-Olfactology Otorhinolaryngology

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.

VR-Together

Duration: October 2017 - December 2020

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

Coordinator: Sergi Fernandez Langa, Fundació i2CAT (Spain)

Co-applicants: 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

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.

Scapulo-Thoracic Alignment in B2 Glenoids

Duration: April 2019 - December 2019

Funding: FORE Foundation / La Tour Hospital - CHF 30,000

Main applicant: Dr. Caecilia Charbonnier, Artanim Foundation

Partner: Dr. Alexandre Lädermann, La Tour Hospital – Division of Orthopedic and Trauma Surgery

Description: Evaluation of scapula-thoracic alignment in B2 gelenoids.

CycloVR

Duration: April 2019 - September 2019

Funding: University Hospitals of Geneva, Artanim Foundation - CHF 35,000

Main applicants: Nicolas Dousse, University Hospitals of Geneva – Division of Intensive Care, Dr. Caecilia Charbonnier, Artanim Foundation

Description: Development of a VR module connected to a prototype cycloergometer for rehabilitation in intensive care and physiotherapy.

HoloMed

Duration: September 2016 - February 2018

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

Main applicant: Dr. Caecilia Charbonnier, Artanim Foundation

Partner: Dr. Alexandre Lädermann, La Tour Hospital – Division of Orthopedic and Trauma Surgery, Hirslanden Clinique La Colline – Division of Orthopedic and Trauma Surgery

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.

Reverse Shoulder Arthroplasty

Duration: January 2017 - December 2017

Funding: Hirslanden Clinique La Colline - CHF 60,000

Main applicant: Dr. Caecilia Charbonnier, Artanim Foundation

Partner: Dr. Alexandre Lädermann, Hirslanden Clinique La Colline – Division of Orthopedic and Trauma Surgery

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

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: Prof. Christiane Luible, Geneva University of Art and Design

Co-applicants: Dr. Caecilia Charbonnier, Artanim Foundation, Dr. Ulricke Froitzheim, Odlo International SA

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

Motion and Unconsciousness

Duration: January 2013 - December 2016

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

Main applicants: Prof. François Ansermet, University Hospitals of Geneva Geneva – Service of Child and Adolescent Psychiatry, Prof. Pierre Magistretti, Brain Mind Institute – EPFL

Co-applicant: Dr. Caecilia Charbonnier, Artanim Foundation

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

ArthroPlanner

Duration: November 2014 - October 2016

Funding: Private - CHF 290,000

Main applicant: 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

Main applicant: Dr. Caecilia Charbonnier, [Artanim Foundation](#)

Partners: Dr. Alexandre Lädermann, La Tour Hospital – Division of Orthopedic and Trauma Surgery, Dr. Frank Kolo, Rive Droite Radiology Center SA

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

Fashioning Movement

Duration: November 2013 - October 2015

Funding: HES-SO - CHF 152,000 (total budget) and CHF 44,000 (Artanim's budget)

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

Co-applicant: Dr. Caecilia Charbonnier, [Artanim Foundation](#)

Description: Objective analysis of garment comfort using 3D simulation tools on animated bodies.

To Fit

Duration: June 2014 - April 2015

Funding: ToFit Sàrl - CHF 40,000

Main applicant: Sylvain Chagué, [Artanim Foundation](#)

Partner: ToFit Sàrl

Description: Development of a complete 3D body and head scanning solution.

Shoulder Rehabilitation

Duration: April 2014 - December 2014

Funding: University Hospitals of Geneva - CHF 16,000

Main applicant: Dr. Caecilia Charbonnier, [Artanim Foundation](#)

Partner: Dr. Nicolas Holzer, University Hospitals of Geneva – Department of Orthopedic Surgery and Traumatology

Description: Impact of strengthening shoulder exercises on the glenohumeral joint and rotator cuff.

Thoracic Outlet Syndrome

Duration: March 2014 - December 2014

Funding: FORE Foundation / La Tour Hospital - CHF 16,000

Main applicant: Dr. Caecilia Charbonnier, [Artanim Foundation](#)

Partners: Dr. Alexandre Lädermann, La Tour Hospital – Division of Orthopedic and Trauma Surgery, Dr. Frank Kolo, Rive Droite Radiology Center SA

Description: Kinematic study of the thoracic outlet syndrome, a rare condition involving nerves compression in the costoclavicular area.

Taylormatic

Duration: December 2012 - October 2014

Funding: NoBrandSolution Sàrl - CHF 187,000

Main applicant: Sylvain Chagué, [Artanim Foundation](#)

Partner: NoBrandSolution Sàrl

Description: Development of a virtual mirror and an interactive cross-platform retail solution, including a high quality 3D product viewer and configurator.

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

Main applicant: Dr. Caecilia Charbonnier, [Artanim Foundation](#)

Partners: Dr. Alexandre Lädermann, La Tour Hospital – Division of Orthopedic and Trauma Surgery, Dr. Frank Kolo, Rive Droite Radiology Center SA

Description: Development of a new kinematic model of the shoulder complex coupling magnetic resonance imaging (MRI) and motion capture.

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: Prof. Jérôme Schmid, Geneva Health School (HEDs)

Co-applicants: Dr. Caecilia Charbonnier, Artanim Foundation, Dr. Panayotis Christofilopoulos, University Hospitals of Geneva – Department of Orthopedic Surgery and Traumatology, Dr. Massimiliano Bernardoni, Medacta International SA

Description: Development of a dynamic simulation module based on motion capture and integrated to the preoperative planning of total hip arthroplasty.

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: Dr. Panayotis Christofilopoulos, University Hospitals of Geneva – Department of Orthopedic Surgery and Traumatology, Dr. Massimiliano Bernardoni, Medacta International SA

7. OTHER FUNDED PROJECTS

Motion capture and 3D animations

- Motion capture for the Art Basel 2022's VR experience ***Albert Oehlen: Basement Drawing***, MacInnes Studio & Vive Arts, June 2020.
- Motion capture and animation for the AR application ***Johannes Badrutt***, Apelab, September 2019.
- Motion capture and animation for the AR dance piece ***Magic Window***, Cie Gilles Jobin, September 2019.
- 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 and animation for a contemporary dance performance ***Força Forte***, Cie Gilles Jobin, September 2015.
- Motion capture and animation for ***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.
- Motion capture and short 3D animations for the ***Omega booth at the Sotchi Olympic Games***, Olympic Games Sochi 2014, Sochi, February 2014.

Immersive experiences, interactive installations

- Creation and development of a multiuser VR simulator ***UltraMagic Balloon Flight Simulator***, permanently installed at Espace Ballon in Châteaux-d'Oex from January 20th 2024.
- Creation, production and direction of the immersive experience ***Escalade: The Darkest Night***, permanently exhibited at Dreamscape Geneva, from December 9th 2023.
- Creation, production and direction of the immersive experience ***Geneva 1850***, initially presented at Maison Tavel and Museum of Art and History, Geneva, April 12th-September 29th 2019, then exhibited at Dreamscape Geneva, July 1st, 2022-December 1st 2023.
- Creation, production and direction of the immersive experience ***The Clockwork Forest***, Audemars Piguet, Le Locle, 2021-2022.
- Creation, production and direction of the immersive experience ***Aboard the Mayflower***, International Museum of the Reformation, Geneva, October 26th-August 31st, 2021.

- Co-creation in collaboration with the Cie Gilles Jobin, tech development, motion capture and 3D scans of the immersive dance piece **VR_I**, on world tour in 2017-2020 and notably presented at:
 - Mostra Internationale d'Arte Cinematografica / Biennale di Venezia 2018, Venice, August 29th-September 8th, 2018.
 - Sundance Film Festival New Frontier 2018, Park City, January 18th-28th, 2018.
 - HeK – House of electronic Arts, Basel, October 25th-29th, 2017.
 - Théâtre Forum Meyrin, Meyrin, October 12th-15th, 2017.
 - Festival du nouveau cinéma, Montreal, October 6th-10th, 2017.
 - Other dates: see <http://www.vr-i.space/dates/>
- Co-creation, production and co-direction of the immersive experience **Wake up and dream**, WVRF17, Crans Montana, May 10th-14th, 2017.
- Creation, production and direction of the immersive experience **Real Virtuality: Immersive Explorers** presented at:
 - Swissnex, Bengalore and Mumbai, January 14th-21st, 2017.
 - Cannes Festival 2016, Cannes, May 11th-14th, 2016.
 - FMX 2016, Stuttgart, April 26th-29th, 2016.
 - Laval Virtual 2016, Laval, March 23rd-27th, 2016.
 - Lift 16, Geneva, February 11th-12th, 2016.
 - Sundance Film Festival New Frontier 2016, Park City, January 22nd-30th, 2016.
 - Tous Ecrans Festival 2015, Geneva, November 6th-7st, 2015.
 - Swissnex, San Francisco, August 17th-21st, 2015.
- Creation, production and direction of the interactive installation **Montreux Jazz Video Jukebox**, Montreux Jazz Festival 2015, Montreux, July 3rd- 18th, 2015.
- Creation, production and direction of the interactive installation **3D In Motion**, Caprices Festival 2015, Crans-Montana, April 9th- 12th, 2015.
- Tech development of the interactive installation **Omega Light Tracking**, Baselworld 2013, Basel, April 25th-May 2nd, 2013.
- Tech development of the interactive installation **Tissot Wrist Watch** in collaboration with the Geneva University of Art and Design and Trivial Mass Production, Baselworld 2012, Basel, March 8-15th, 2012.

Live performances

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

8. 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.

9. AWARDS / DISTINCTIONS

- Recipient of the **Special Jury Prize** at the **2022 Great Economy Awards**, Geneva, 2022.
- Selected as part of the **100 Digital Shapers** (100 most important Swiss individuals in all things digital), 2018 edition.
- **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.

- Selected as part of the **Forum des 100** (100 personalities who make the French-speaking part of Switzerland), 2017 edition.
- 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.

10. SOCIETIES

- International Society for Computer Aided Surgery (ISCAS)
- ACM Siggraph

11. OFFICIAL FUNCTIONS

- **Member of the scientific advisory board, Surgical Devices Innovation Platform, 05.2017**
Member of the scientific advisory board of the Surgical Devices Innovation Platform, University Hospitals of Geneva.

12. 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

- In orthopedics and sport medicine, such as the American Journal of Sports Medicine, the Journal of Orthopedic Research, etc.
- In biomechanics, such as the Journal of Biomechanics, the Journal of Applied Biomechanics, etc.
- International conferences:

- International Conference in Sport Biomechanics 2015
- Medical Imaging Computing and Computer-Assisted Intervention (MICCAI) conference 2011

13. INVITED CONFERENCES

1. Parlons numérique : Métavers et web 3.0: " Virtual Reality: Presence and Immersion for the Metaverse", University of Geneva, Geneva, October 19th, 2022
2. Tech4Trust by Trust Valley: Metaverse panel, Online, February 8th, 2022
3. ACM Motion in Game (MIG) 2021: "Technics and Challenges in Creating Highly Immersive Experiences in Free-Roam Location-Based VR", Online, November 10th, 2021
4. Aurea Award 2020: Round Table "From Storytelling to story-living, the Rise of Hyper Reality in LBE", Online, January 22nd, 2021
5. VRDays Europe 2019: LBVR panel, Amsterdam, November 13th, 2019
6. Geneva International Film Festival 2019: Meet-the-Experts session for VS Tech Day, Geneva, November 6th, 2019
7. HUG Innovation Day: "Bientôt soigné par la réalité virtuelle ?", Geneva, October 31st 2019
8. Institut National Genevois (ING): "Bientôt soigné par la réalité virtuelle ?", Geneva, September 24th 2019
9. The Spot: "Athletes in Motion", Lausanne, May 28th, 2019
10. Meyrin Economic Forum : Table ronde "La transformation digitale : la bourse ou la vie de l'entreprise", Geneva, February 8th, 2019
11. Health Valley, HPE/Inartis: "Le patient augmenté", Geneva, January 29th, 2019
12. Geneva International Film Festival 2018: Round table "L'avenir du musée est-il virtuel", November 7th, 2018
13. Forum ArtTech 2018: Round table "From lab to Hollywood", Geneva, October 11th, 2018
14. Salon Planète Santé 2018: Round table "La France ou la Suisse ont-ils les moyens de garder la maîtrise des données en santé?", Geneva, October 5th, 2018
15. Health Lab 2018: "Bientôt soignés par la réalité virtuelle", Geneva, October 4th, 2018
16. Annual conference of European Society for Surgery of the Shoulder and the Elbow (ESSSE): "Virtual and Augmented Reality in Medicine: New Interactive Tools for the Shoulder Surgeon", Geneva, September 22nd, 2018
17. Virtual Switzerland 2018: Round table "Medicine and VR/AR", Zürich, June 14th, 2018
18. World VR Forum 2018: Round table "Location-based entertainment", Crans-Montana, June 8th, 2018
19. Rencontre du 7e art de Lausanne (r7al) : Round table "Parles avec elles", Lausanne, March 27th, 2018
20. Swiss Foundation for Innovation and Training in Surgery (SFITS): "Perspectives of VR/AR in medicine", Geneva, Avril 6th, 2018
21. World VR Forum 2017: "From Research to State-of-the-art Entertainment", Crans Montana, May 12th, 2017
22. MGM Center of Human Movement Science: "Combining motion capture and medical imaging to improve diagnosis and treatment of Osteoarticular Structures", Mumbai, January 20th, 2017
23. National Center for Biological Sciences: "Inside Real Virtuality", Bengalore, January 16th, 2017
24. Digital Health 2016: The Role of Digital Health in Early Diagnosis and Prevention, June 24th, 2016
25. Cannes Festival 2016: "Beyond Cinema: the Swiss Digital Revolution", Cannes, May 13th, 2016
26. Lift 16: "Enter the Anti-Disciplinary Space: A Life in Motion", Geneva, February 11th, 2016
27. Sundance Film Festival 2016: Round table "Hacking your senses", Park City, January 23rd, 2016
28. GameZFestival 2015: "Real Virtuality Multiplayer", Zürich, October 4th, 2015
29. 33rd International Conference on Biomechanics in Sports: "Hip and dancing", Round table "Sport and security", University of Poitiers, Poitiers, June 30th, 2015
30. 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

31. Annual Conference of the French Society of Orthopaedic and Trauma Surgery (SOFCOT): "Hip and dancing", Round table "Sport and security", Palais des Congrès, Paris, November 15th, 2012
32. Prophysics User Meeting: "Motion Capture at Artanim: from 3D Animation to Movement Science", Orthopedic Hospital of Speising, Vienna, September 29th, 2012
33. Meeting Agalma - Between art, science et psychoanalysis: "Body and movement: between art, science et technology", Swiss Institute of Roma, September 6th, 2012
34. 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
35. VIEW Conference 2011: "Using Motion Capture to Improve Analysis and Diagnosis of Joint Disorders", Torino, October 18th, 2011
36. Annual Congress of the Swiss Orthopedic and Traumatology Society (SSOT): "Extreme Hip Motion in Professional Ballet Dancers", Lausanne, June 24th, 2011
37. Lift 11: "From Ballet Dancing to 3D Hip Simulation", Geneva, February 4th, 2011
38. European Federation of National Associations of Orthopaedics and Traumatology (EFORT) meeting: "Professional Dancer's Hip: A Motion Capture Study", HUG, October 22nd, 2010
39. European Society of Sports Traumatology, Knee Surgery & Arthroscopy (ESSKA) meeting: "Professional Dancer's Hip: A Motion Capture Study", HUG, June 1st, 2010
40. 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. 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

16. MEDIA

Press articles

1. [La folle Nuit de l'Escalade, en réalité immersive, comme si vous y étiez](#), Le Dauphiné Libéré - December 6, 2023
2. [La réalité virtuelle fait de chaque visiteur un personnage de l'Escalade](#), Tribune de Genève - December 6, 2023
3. [Réalité virtuelle: comme une autre dimension](#), Coopération - July 10, 2023
4. [La Forêt mécanique, plongée féerique au cœur de l'horlogerie](#), Le Dauphiné Libéré - April 14, 2023
5. [A la pointe de l'immersion virtuelle](#), Entreprise Romande - March 31, 2023
6. [Championne des mondes virtuels](#), Campus Magazine de l'Université de Genève - March 25, 2023
7. [Une expérience de réalité virtuelle consacrée à l'horlogerie](#), Tribune de Genève - March 23, 2023
8. [Caecilia Charbonnier, sa réussite n'a rien de virtuelle](#), OFF Magazine - September 29, 2022
9. [Des entreprises innovantes fêtées au BFM](#), Tribune de Genève - September 20, 2022
10. [«Il y a beaucoup de similitudes entre le sport et la recherche»](#), PME - September 19, 2022
11. [A Genève, l'avatar est roi](#), Le Matin - July 5, 2022
12. [Dreamscape : entre ciné et parc d'attractions, première européenne à Genève](#), Le Dauphiné Libéré - July 4, 2022

13. [Plongée virtuelle dans le passé ou dans des mondes imaginaires](#), 20 Minutes - July 4, 2022
14. [On a testé le nouveau centre de réalité virtuelle pour vous](#), 24 Heures - July 3, 2022
15. [Un temple de la réalité virtuelle à Genève](#), Le Temps - June 23, 2022
16. [Attractions «immersives» La pionnière de la réalité virtuelle revient à Genève](#), Tribune de Genève - May 27, 2022
17. [Le public va pouvoir se balader dans la Genève de 1850](#), Tribune de Genève - May 23, 2022
18. [Du réel au virtuel, il n'y a qu'un pas](#), Bleu Horizon Magazine CIEPP - April 29, 2022
19. [Chez Artanim, l'art est avatar](#), Le Temps - March 10, 2022
20. [Un eldorado virtuel](#), La Liberté - February 11, 2022
21. [Ces startup suisses qui bâttissent des mondes parallèles](#), Bilan - January 4, 2022
22. [La technologie genevoise qui séduit Hollywood](#), Entreprise Romande - March 26, 2020
23. [Von der Tennishoffnung zum Digital-Crack](#), Blick - September 22, 2019
24. [Voyage époustouflant en réalité virtuelle dans la Genève de 1850](#), Le Matin Dimanche - April 14, 2019
25. [Un quart d'heure dans la révolution fazyste, à Genève](#), Le Temps - April 14, 2019
26. [Vivez 17 minutes dans la Genève de 1850 sans quitter le musée](#), Dauphiné Libéré - April 10, 2019
27. [La Genève de 1850 revit grâce à la réalité virtuelle](#), Tribune de Genève - April 10, 2019
28. [Genève 1850. Un voyage révolutionnaire](#), Vivre à Genève - April 9, 2019
29. [Voyage virtuel dans le temps à la Maison Tavel](#), 20 Minutes - March 19, 2019
30. [Les musées se réinventent](#), Bilan - November 10, 2018
31. [A Lyon, la réalité virtuelle prend le pouvoir](#), Le Monde - September 25, 2018
32. [Digital Shapers 2018](#), Le Temps - October 2018
33. [A Lyon, la réalité virtuelle prend le pouvoir](#), Le Monde - September 25, 2018
34. [Bal casqué](#), Magazine Le Monde - September 22, 2018
35. [Biennale de la danse, la suite](#), Le Tout Lyon - September 20, 2018
36. [On a testé une immersion dans la réalité virtuelle de Gilles Jobin à Venise](#), Tribune de Genève - September 14, 2018
37. [A Lyon, entrez dans la danse connectée](#), Le Monde - September 6, 2018
38. [Quand la science bouscule l'art : la réalité virtuelle entre dans la danse](#), Le Figaro - August 13, 2018
39. [Du jeu vidéo aux autres secteurs de l'économie](#), Agefi - June 11, 2018
40. [L'odyssée pour géants de Gilles Jobin](#), Le Temps - May 1, 2018
41. [VR I, le trip extracorporel qui fait danser Sundance](#), 20 Minutes - January 23, 2018
42. [Des géants virtuels mènent la danse](#), Tribune de Genève - October 10, 2017
43. [La virtualisation du secteur médical, révolution du siècle ?](#), Quotidien salon EPHJ-EPMT-SMT - June 23, 2017
44. [Wenn das Kinoerlebnis zum Trip wird](#), NZZ am Sonntag - May 7, 2017
45. [D'Artanim à Dreamscape Immersive : Des chercheurs genevois sur les chemins de la réussite](#), Fédération des Entreprises Romandes - March 3, 2017
46. [Dreamscape tape dans l'oeil de Spielberg](#), Tribune de Genève - February 20, 2017
47. [Regisseur Spielberg investiert 11 Millionen in Schweizer Jungunternehmen](#), Aargauer Zeitung - February 20, 2017
48. [This is how multiplayer VR of the future will look like](#), The Economic Times - Bengalure - January 18, 2017
49. [A whole new world of virtual reality in the city](#), Times News Network - Bengalure - January 17, 2017
50. [Sneak peek into the real virtual world](#), Deccan Chronicle - Bengalure - January 16, 2017
51. [Plongée, Islande et réalité virtuelle](#), Swissquote Magazine - December 6, 2016
52. [Ces start-up suisses qui inventent le cinéma de demain](#), Bilan - June 16, 2016

53. [Schweizer Flüge in die Kinozukunft](#), Berner Zeitung - May 16, 2016
54. [Das Starsystem wankt](#), NZZ - May 15, 2016
55. [La réalité virtuelle sur la Croisette](#), Tribune de Genève - May 14, 2016
56. [Une réalité de plus en plus virtuelle](#), Tribune de Genève - January 12, 2016
57. [Des Suisses brillent dans la réalité virtuelle](#), Le Temps - January 11, 2016
58. [La réalité virtuelle genevoise honorée à Los Angeles](#), Tribune de Genève - September 28, 2015
59. [Une immersion totale dans un monde virtuel](#), Tribune de Genève - July 4, 2015
60. [En visite chez un faux pharaon](#), Le Temps - April 30, 2015
61. [Radiologie du futur: L'exemple de la danseuse](#), www.santedelafemme.ch (L'illustré) - March 11, 2014
62. [Créer son clone devient possible](#), Le Nouvelliste - November 27, 2014
63. [La technologie 3D au service de la médecine](#), Migros Magazine - January 23, 2012
64. [Sportifs d'élite: se relever après une blessure](#), Migros Magazine - September 26, 2011
65. [Genève accueille un centre d'imagerie 3D unique en Suisse](#), Tribune de Genève - September 16, 2011
66. [Il n'y a pas de limites à la capture du mouvement](#), Tribune de Genève - February 18, 2011
67. ["Adolescente, je revais de petites balles jaunes"](#), Tribune de Genève - July 29, 2009
68. [Deux licences, un master et bientôt un doctorat...](#), Tribune de Genève - March 11, 2009
69. [Sport et carrière: l'art du rebond](#), La Vie Protestante - June 2008
70. [MIRALab pilote l'humain virtuel animé](#), Campus - May 2008
71. [Dossier recherche médicale](#), L'Internat de Paris - December 24, 2007
72. [Diagnostiquer les pathologies articulaires en 3D](#), Le Monde - October 1, 2007
73. [Vous cherchez?](#), Tribune de Genève - June 2007
74. [Mon corps en 3D?](#), Revue de Presse de l'UNIGE - May 2007

Articles on Internet

1. [Avec ses simulateurs, l'Espace Ballon a changé de dimension](#), 24 Heures - January 21, 2024
2. [Un simulateur de pilotage de ballon sur le point d'être inauguré à Château-d'Œx](#), La Gruyère - January 15, 2024
3. [A Château-d'Œx, piloter un ballon en gardant les pieds sur terre](#), La Liberté - January 15, 2024
4. [Réel de tdg online](#), Tribune de Genève - December 8, 2023
5. [Dreamscape lance sa nouvelle expérience consacrée à l'Escalade](#), Bilan - December 7, 2023
6. [La Fondation Artanim a développé une nouvelle aventure VR : La Nuit de l'Escalade](#), Cominmag.ch - December 6, 2023
7. [La Nuit de l'Escalade en réalité virtuelle : Artanim émerveille et réinvente la tradition](#), Synergix - December 5, 2023
8. [Dans leur Forêt mécanique, Dreamscape et Audemars Piguet font des étincelles](#), Genève Les Portes - March 21, 2023
9. [Embarquement pour un voyage stupéfiant](#), Le Frontalier - March 6, 2023
10. [Caecilia Charbonnier, Dreamscape: «Nous ne sommes pas près de voir un métavers standardisé»](#), ICT Journal - September 9, 2022
11. [Les entreprises investissent le marché du jeu vidéo éducatif](#), Bilan - September 6, 2022
12. [Le premier centre de réalité virtuelle immersive d'Europe inauguré à Genève](#), Bilan - September 3, 2022
13. [On a testé la réalité virtuelle de Dreamscape !](#), Genève Secrète - August 8, 2022
14. [Dreamscape, en immersion dans le futur \(et dans la Genève de 1850\)](#), Genève Les Portes - July 11, 2022
15. [Dreamscape, la révolution de la réalité virtuelle](#), Genève Secrète - July 4, 2022
16. [Dreamscape réinvente le divertissement grâce à la VR](#), cominmag.ch - July 4, 2022

17. [Dreamscape ouvre à Genève son premier centre européen de réalité virtuelle immersive](#), ICT Journal - May 24, 2022
18. [Dreamscape : Nouveau centre de réalité virtuelle immersive à Genève](#), loisirs.ch - May 24, 2022
19. [Un fleuron genevois pour la réalité virtuelle d'Artanim](#), Startupticker - May 23, 2022
20. [Dreamscape va ouvrir un centre de réalité virtuelle immersive à Genève](#), cominmag.ch - May 23, 2022
21. [Geneva VR-tech immerses itself in US training programmes](#), Geneva Solutions - October 13, 2020
22. [Avec Dreamscape, j'étais réellement Indiana Croft](#), ETR - February 29, 2020
23. [Hello, Columbus: Spielberg-Backed Dreamscape VR Center Opens Friday In Ohio](#), Forbes - February 24, 2020
24. [Dreamworks Dragon Flight Academy Shows Promise For Location-Based VR To Reach New Heights](#), VR Scout - December 19, 2019
25. [Dreamscape in Dubai: VR goes next level](#), Gulf News - December 19, 2019
26. [Majid Al Futtaim, Dreamscape open VR location at Mall of the Emirates](#), blooloop - December 19, 2019
27. [Majid Al Futtaim teams up with Dreamscape to take VR to a new level](#), TechRadar.pro - December 19, 2019
28. [Majid Al Futtaim makes Dreamscape come true in UAE](#), Khaleej Times - December 16, 2019
29. [Cartographers of the mirror worlds](#), Heidi.news - September 26, 2019
30. [La médecine maintenant virtuelle, augmentée et capturée grâce à Artanim](#), Agefi - August 26, 2019
31. [Le voyage dans le temps genevois affiche complet](#), Agefi - July 30, 2019
32. ["Genève 1850 un voyage révolutionnaire": une expérience immersive en réalité virtuelle proposée par les Musées d'art et d'histoire de Genève](#), Club Innovation & Culture France - April 10, 2019
33. [Invitation à un voyage révolutionnaire en 1850](#), 20 Minutes - April 10, 2019
34. [Must-see VR tour of 1850s Geneva](#), Things to do in Geneva - April 10, 2019
35. [Haptische VR-Experience "Geneva 1850" - Special](#), games.ch - April 9, 2019
36. [La danse se met en mode 2.0](#), 24 Heures - January 31, 2019
37. [Neuf innovations technologiques marqueront la santé du futur](#), Agefi - January 29, 2019
38. [Virtual reality start-ups bet people will leave their homes for a VR experience that's a cross between a movie theater and theme park](#), CNBC - December 16, 2018
39. [Swim with whales at a mall as Dreamscape Immersive opens its first VR storefront](#), Los Angeles Daily News - December 14, 2018
40. [Spielberg-Backed Dreamscape Opens First Permanent VR Storefront](#), Forbes - December 14, 2018
41. [How Wevr & Dreamscape Immersive Reinvented 'The Blu' for Location-Based VR](#), Variety - December 14, 2018
42. [Dreamscape Lets You Walk Through The Screen](#), VRroom - December 2018
43. [Danse et réalité virtuelle à Venise](#), Cinébulletin - July 31, 2018
44. [Danza e partecipazione. Gilles Jobin e la realtà virtuale immersiva](#), Artribune - May 3, 2018
45. [Wie ein Tor in eine andere Welt](#), ThurgauKultur - March 8, 2018
46. [D'ici 5 ou 10 ans, la réalité virtuelle sera omniprésente dans notre vie](#), Le Matin Dimanche - February 11, 2018
47. [Dreamscape Immersive's Alien Zoo takes guests to an interstellar Jurassic Park](#), The Verge - February 23, 2018
48. [Enter the Dreamscape: Location-Based VR Gets a New Player](#), Wired - February 20, 2018
49. [Location Based VR Revs Up New Year](#), Forbes - February 19, 2018
50. [Dreamscape's Alien Zoo Creates A Sense Of Awe And Wonder](#), UploadVR - February 9, 2018
51. [Virtual Reality Experience Debuts at Westfield Century City From Dreamscape Startup](#), The Hollywood Reporter - February 7, 2018
52. [Virtual Reality Gets Social: At Sundance, Proof that the Future of VR is Shared Experiences](#), IndieWire - February 1, 2018
53. [Swiss startups stir up public excitement](#), startupticker.ch - January 26, 2018

54. [Dreamscape Raises \\$30 Million For Location-based VR](#), UploadVR - December 14, 2017
55. [Dreamscape Immersive Partners With Nickelodeon for Location-Based VR Experience](#), Variety - December 13, 2017,
56. [Dreamscape VR startup ups Series B to \\$30 million, will make VR content with Nickelodeon](#), L.A. Biz - December 13, 2017
57. [HoloMed: Mixed reality anatomical motion capture for healthcare](#), HealthiAR - October 12, 2017
58. [Un deal pour booster la réalité virtuelle d'Artanim](#), startupticker.ch - October 6, 2017
59. [HoloLens Provides New Tool For Sports Medicine](#), VR Focus - October 3, 2017
60. [Plongée dans le mouvement](#), Le Courrier - October 3, 2017
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16. 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)

17. FORMERLY

From 1996 to 1999: Professional tennis player (4th in Switzerland, WTA 276)
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19. DATE AND SIGNATURE

Geneva, the 25^h of January 2024



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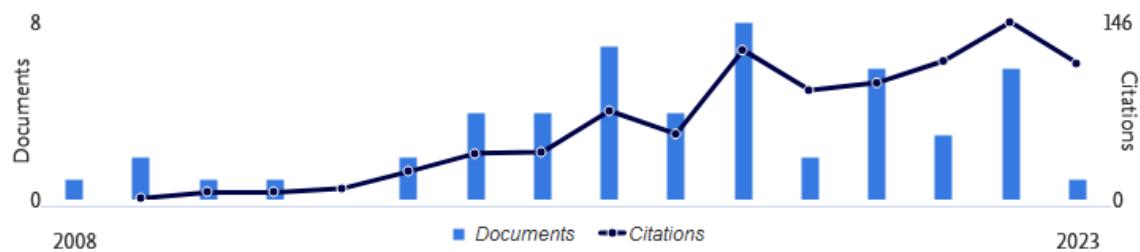
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