

Curriculum Vitae – Clara Eline James - March May 2020

Dutch nationality, born 21.08.1962 Amsterdam, the Netherlands

Mother tongue: Dutch; spoken and written fluently: French, English, German

ORCID ID <https://orcid.org/0000-0001-7480-0682>

Academia.EDU: <https://heds-fr.academia.edu/ClaraJames>

Host Institute website: <https://www.hesge.ch/heds/annuaire/clara-james>



Research interests

- ✓ Neuronal substrates at the root of perceptive, cognitive and motor functioning
- ✓ Experience-driven brain and behavioral plasticity following musical activity over the lifespan
- ✓ Links between general and musical cognition and their neuronal substrates
- ✓ Cognitive and brain features of musicians with absolute pitch
- ✓ Developing musical training regimens that:
 - Countervail age-induced cognitive and sensorimotor decline and brain degeneration
 - Boost cognitive, sensorimotor and associated brain development in normally developing and high-risk children

Current position(s)

<u>2012-current</u>	Full Professor UAS, Head of R&D ¹ & Director of the Research Institute of the HEDS-GE ²	HEdS - Haute école de santé de Genève (HEdS-GE), HES-SO ³ ; Department of Radiology
<u>2013-current</u>	Privat Docent Neuropsychology of Music (MSc)	FPSE ⁴ UNIGE ⁵ au sein du NEAD ⁶ (Prof. Grandjean)
<u>2019-current</u>	Director of the Geneva Musial Minds Laboratory / GEMMI lab	HEdS-GE HES-SO: Geneva University Neurocenter

Governing activities

<u>2012-current</u>	Head of R&D ⁷ and Director of the Research Institute of the HEDS-GE
<u>2012-current</u>	President of the R&D board of the HEDS-GE
2012-2019	Member of the R&D Health Committee of the HES-SO
<u>2012-current</u>	Member of the Direction board of the HEDS-GE
<u>2019-current</u>	Director of the Geneva Musical Minds Lab (GEMMI lab)
<u>2020-current</u>	Vice-president of the R&D Health Committee of the HES-SO

Education

Diplomas	
<u>1987, 1990</u>	Professional musician: BSc Music Pedagogy & MSc Music Performance at the superior Conservatoires of Amsterdam & Rotterdam, the Netherlands (instrument: violin).
<u>2002</u>	Bachelor's degree in Psychology at the FPSE UNIGE
<u>2004</u>	Master's degree in Cognitive Experimental Psychology at the FPSE UNIGE
<u>2008</u>	PhD in Neurosciences of the Universities of Geneva and Lausanne, FPSE UNIGE. 20-03-08

Continuous education

<u>November 2003</u>	Neuroscan School, London, England, "Advanced EEG/ERP Acquisition & Analysis"
<u>May 2005</u>	"Intensive Course on Human Neuroimaging: Methods, Experimental Design, and Analyses". Neuropsychology Division & Radiology Service, CHUV.
<u>August 2008</u>	Workshop "Robust methods and Exploratory Data Analysis in Psychology". FPSE UNIGE
<u>October 2009</u>	Participation in the 6-day training course on MRI analyses "SPM for Basic and Clinical Investigators", Martinos Centre for Biomedical Imaging, Charlestown, Massachusetts, USA. 5-9.10.2009
<u>June 2007 & June 2010</u>	Participation in workshops on structural brain imaging preceding the Human Brain Imaging meetings of 2007 (Chicago, USA) & 2010 (Barcelona, Spain) "Diffusion and Structural MRI".
<u>February 2013</u>	Statistical Parametric Mapping Course 2013, Advanced Imaging Course. Translational Neuromodeling Unit of the Institute for Biomedical Engineering, University of Zurich & ETH Zurich. 13-15.02.2013

¹ Applied Research & Development / Recherche appliquée et Développement

² Geneva School of Health Sciences HES-SO / Haute école de santé de Genève HEDS-GE HES-SO

³ University of Applied Sciences and Arts Western Switzerland HES-SO / Haute Ecole Spécialisée de Suisse occidentale HES-SO

⁴ Faculty of Psychology and Educational Sciences / Faculté de Psychologie et des Sciences de l'Éducation

⁵ University of Geneva / Université de Genève /

⁶ Neuroscience of Emotion and Affective Dynamics lab

⁷ Recherche appliquée et Développement

<u>January 2015</u>	Certificate of Attendance "Good Clinical Practice", Obtained at the HUG ⁸ . 21-23.01.2015
<u>September 2015</u>	Second Brain Connectivity Course, Grenoble Institute of Neuroscience in Grenoble, FRANCE. Overview of currently used methods for brain connectivity analysis resting-state fMRI and Diffusion Imaging. 21-25.09.2015
<u>August 2017</u>	Summerschool "Data Science, Statistical programming with R", Utrecht, the Netherlands. 14-18.08 2017
<u>September 2017</u>	R courses Universität Zürich, 7-8 September 2017, Introduction to R; 14-15 September R4All (advanced)
<u>October 2017</u>	Utrecht SPM 12 fMRI course, Den Dolder, the Netherlands. Basic & Resting State fMRI. 23-27.10.2017

Professional and academic experience (before Current positions)

Employment history		
<u>2011-2012</u>	Junior Lecturer (Chargée de cours)	FPSE UNIGE
<u>2003-2011</u>	Scientific Collaborator	FPSE UNIGE
<u>1988-1997</u>	Musician (violinist); performer	Orchestras: <i>Amsterdam Sinfonietta; Royal Concertgebouw Orchestra; European Union Youth Orchestra; Opéra de Lyon</i>
<u>1988-1997</u>	Musician (violinist); teacher	Violin and Chamber music teacher at the <i>Conservatoire of Uithoorn</i> , the Netherlands

Teaching activities		
<u>2013-current</u>	Privat Docent Neuropsychology of Music (MSc)	FPSE UNIGE
<u>2007-2009</u>	Human action, in collaboration with Prof. Paolo Viviani (BSc)	FPSE UNIGE
<u>2007-2012</u>	Motor Learning and Development (BSc)	FPSE UNIGE
<u>2011-2013</u>	Investigation methods (Neuroimager; BSc)	FPSE UNIGE
<u>2004-2011</u>	Motor Learning (BSc)	HEdS-GE, Physiotherapy Department

Supervision of junior researchers at Master, Postdoc and PhD level

<u>2010</u>	Direction Master's Thesis at the Institute of Sport Sciences of the University of Lausanne. Laetitia Hyvert.
<u>2009-2012</u>	Supervision of Post-Doctoral student Mathias Oechslin within the context of FNS project 125050.
<u>2011</u>	Direction of Master's thesis in developmental psychology of Marion Bonnemain. FPSE UNIGE.
<u>2012</u>	Direction of Master's thesis in Medicine, University of Lausanne of Céline Decloux. (Tutor: Dr A. Croquelois).
<u>2012</u>	Direction of Master's thesis in cognitive psychology of Elodie Rouillet. FPSE UNIGE.
<u>2013</u>	Direction of Master's thesis in cognitive psychology of Donato Cereghetti. FPSE UNIGE.
<u>2016</u>	Direction of Master's thesis in affective & clinical psychology of Noémie Vuichoud. FPSE UNIGE.
<u>2018-2021</u>	Supervision of Post-Doctoral student Damien Marie within the context of FNS project 170410.
<u>2018-2020 ongoing</u>	Direction of Master theses in Psychology (FPSE) of 1) Nadia Bersier and 2) Pauline Berthousoz in the context of SNSF no. 170410 (TBM).
<u>2018-2020 ongoing</u>	Direction of Master theses in Music Education (HEM-GE ⁹) of 1) Xavier Favier and 2) Bernat Catala Rams in the context of SNSF no. 170410 (TBM).
<u>2019-2021 ongoing</u>	Direction of Neuroscience Master theses (Geneva Neuroscience Center) of 1) David Müller and 2) Cécile Mueller in the context of SNSF no. 100019E-170410 (TBM).
<u>2019-2020 ongoing</u>	Supervision 6 months thesis internship at the HEdS-GE of Mattia Nese, PhD student at the Department of Psychology at the University of Bologna.

Research projects as principal/leading investigator

<u>2009</u>	SNSF Grant no. 125050 of CHF 301'986.- for a 3-year research project entitled "Behavioral, neuro-functional and neuro-anatomical correlates of experience dependent music perception"
<u>2012-13</u>	Supplementary SNSF Grant of CHF 43'738.- for a 6-month prolongation of Project no. 125050
<u>2016-2018</u>	Grant of CHF 30'000.- mandate from the Accademia d'Archi, with the support of CARIGEST SA in the search for anonymous sponsorship for the study "L'impact de l'initiative "Orchestre en classe" au sein d'une école publique genevoise sur le développement cognitif et sensorimoteur de l'enfant ».

⁸ Geneva University Hospitals / Hôpitaux Universitaires de Genève

⁹ Geneva University of Music / Haute école de musique de Genève HES-SO

<u>2018-2021</u>	SNSF Lead Agency Grant no.170410 of CHF 342'428.- for a 3-year research project entitled "Train the brain with music: Brain Plasticity and cognitive benefits induced by musical practice in elderly people in Germany and Switzerland" (Swiss Main Applicant). Acronym: TBM
<u>2018-2021</u>	Grant of CHF 118'000.- Dr. med. Kurt-Fries Stiftung. Contribution to SNSF grant no.170410
<u>2020-2021</u>	Grant of CHF 54'000.- "Alzheimer Suisse" and of CHF 39'394.- for the project "Countervail cognitive, sensorimotor and cerebral decline in patients with Mild Cognitive Impairment through intensive musical group practice" Obtained November 2019 and May 2020.
<u>2020-2021</u>	Supplementary SNSF Grant of 108'625.- for a 6-month prolongation of Project no. 170410

Prizes, fellowships, distinguished memberships

<u>2013-2017</u>	Member Editorial Board "Hemisphères", La revue Suisse de la recherche et de ses applications, HES-SO
<u>2014-current</u>	Member Comité directeur "PhD en science biomédicale mention santé globale". Medical faculty UNIGE
<u>2015-current</u>	Advisor and member of research committee. Geneva Emotion and Music laboratory (GEM) of the Swiss Center for Affective Sciences & the Geneva University of Music (HEM)
<u>2017</u>	Price for Best research project. 2017, 10'000.- CHF ; Fondation Dalle Molle "Pour la qualité de la vie".
<u>2017-current</u>	Member Programme Committee of the Geneva Health Forum
<u>2019-current</u>	Member of the Geneva University NeuroCenter

Editorial activities

<u>2011-current</u>	Review Editor in Frontiers Auditory Cognitive Neuroscience.
<u>2020-2021</u>	Guest Associate Editor in Frontiers Auditory Cognitive Neuroscience. Research topic: Neuroscience and New Music: Assessing Behavioral and Cerebral Aspects of Its Perception, Cognition, Induction, and Entrainment.

Organization of conferences

<u>2015</u>	Study Day "Santé, Handicaps & Vieillessement". Financed by La Fondation pour la promotion des soins infirmiers. Grand auditoire de la Roseraie, HEDS-GE, 13.11.2015
<u>2016</u>	Professional & Scientific summer school "Digital Health 2016, Early Diagnosis & Prevention", Financed by the swissuniversities. Grand auditoire de la Roseraie, HEDS-GE, 22-24.06.2016.
<u>2020</u>	Co-organization of the conference Music for Development & Rehabilitation 10.12.2020, Campus Biotech, Geneva, Switzerland. Co-organizers Prof. Petra Hüppi (Chair, Medical Faculty UNIGE), Prof. Didier Grandjean (FPSE UNIGE).
<u>2021</u>	<i>Postponed with one year following the Covid-19 Pandemic. Symposium "The impact of long-term music intervention on behavior and brain plasticity over the live span"; Conference Neurosciences and music VII "Connecting with music over the lifespan", organized in collaboration with Eckart Altenmüller (invited chair Gottfried Schlaug). Aarhus, Denmark June18-21 2021</i>

Outreach

Oral presentations at scientific conferences on invitation	
<u>2005</u>	Seminar, program "Colloques Neuropsychologie/Psychiatrie", organized by l'Unité Psychiatrique Hospitalière adulte, l'Unité de Neuropsychologie and the Service de rééducation des HUG: "Musique et cerveau". 12.12.2005.
<u>2007</u>	Alpine Brain Imaging Meeting. Champéry, Switzerland. James, C., Michel, C., Britz, J., Vuilleumier, P., Bigand, E. & Hauert, C.-A. "The Musical Brain: Unravel processing of syntactical incongruities in expressive music by experts and laymen using functional electrical neuroimaging". 14-19.01 2007
<u>2010</u>	Interdisciplinary Colloquium "Music and Emotion" organized by the Swiss Center of Affective Sciences. Uni Mail. Behavioral, neuro-functional and neuro-anatomical correlates of experience dependent music perception". 4.12, 2010.
<u>2011</u>	Conference at the BBL ¹⁰ /CIBM ¹¹ Research day, Nouvel auditoire de pédiatrie, Hôpital des enfants, HUG, Geneva. Musical syntax processing as a function of musical expertise: Functional Magnetic Resonance Imaging data". 20.04.2011
<u>2011</u>	Oral presentation. Seminar "Neurosciences cliniques" at the CHUV ¹² , Lausanne. "Behavioral, neuro-functional and neuro-anatomical correlates of experience dependent music perception". 1.06.2011.

¹⁰ Brain and Behaviour Laboratory

¹¹ Centre d'Imagerie BioMédicale

¹² Centre Hospitalier Universitaire Vaudois

<u>2014</u>	Geneva Aging Series, 3rd Edition on Recent Developments in Cognitive Aging. FPSE, University of Geneva. "Drill the brain through music or walking: impact of distinct training regimens on age-induced cognitive decline". 3-5.09.2014
<u>2015</u>	4th International Conference on Music & Emotion (ICME), Geneva, Campus Biotech, "Musical Minds: Musical practice driven behavioral and cerebral brain plasticity". 12-16.10.2015.
<u>2016</u>	Anniversary Symposium of the Brain & Behaviour Laboratory 2009-2016. Oral presentation "How musical practice sculpts brain and behavior". Auditoire de Pédiatrie – HUG. 28.11.2016.
<u>2017</u>	"HES@CampusBiotech", La recherche appliquée dans les hautes écoles spécialisées". "The power of music: how musical practice sculpts brain and behavior". Campus Biotech Auditorium, Genève. 12.04.2017
<u>2018</u>	Forum de l'innovation France-Suisse, Silver Economy 2018. "Entraîner le cerveau avec la musique : plasticité cérébrale et bénéfices cognitifs induits par la pratique musicale chez les personnes âgées en Allemagne et en Suisse". Haute école de gestion Arc, Espace de l'Europe 21, Neuchâtel. 21.03.2018.
<u>2018</u>	Chaire Recherche en Sciences Infirmières, AP-HP Assistance Public Hôpitaux de Paris, LEPS Laboratoire Educations et Pratiques de Santé, Université Paris 13 "Le pouvoir de la musique", Seminar. 20.09.2018.
<u>2019</u>	"How musical practice sculpts brain and behavior, Learning and Plasticity meeting", Åkäslopola, Finland. 7-10.04.2019.
<u>2019</u>	2nd European Music School Symposium, University of music and performing arts, Vienna, Austria. "Two years of Orchestra in Class enhance cognitive and sensorimotor development of primary schoolchildren". 10-11.10. 2019
<u>2019</u>	Network for Interdisciplinary Research in Music. University of Applied Sciences "Hanzehogeschool Groningen", Research Center Art and Society, the Netherlands. Keynote lecture: "Impact of music practice on brain and behavior over the lifespan". 8.11.2019.
Selected peer-reviewed conference presentations (Poster Papers; n total = 35, 2004-2019)	
<u>2008</u>	6 th FENS Forum of European Neuroscience. Geneva, Switzerland. James, C.E., Britz, J., Vuilleumier, P., Hauert, C.-A. & Michel, C.M. "Plasticity in right limbic structures mediates harmony incongruity processing in musical experts". 12-16.07.2008
<u>2009</u>	The CNS (Cognitive Neuroscience Society) annual meeting. San Francisco, USA. James, C.E., Michel, C.M., Britz, J., Vuilleumier, P. & Hauert, C.-A. "Rhythm evokes Action: Processing of metric deviances in expressive music by experts and laymen revealed by electrical neuroimaging". 21-24.03.2009
<u>2010</u>	16 th Annual Meeting of the Organization for Human Brain Mapping. Barcelona, Spain. James, C.E., Michel, C.M., Britz, J., Vuilleumier, P. & Hauert, C.-A. "Processing of metric deviance in music by experts and laymen revealed by ERP source imaging". 6-10.06.2010
<u>2011</u>	The Neurosciences and Music – IV. Learning and Memory, Edinburgh, Scotland, UK. "Musical syntax processing as a function of musical expertise: 1. James, C.E., Van De Ville D., Lazeyras F., Hauert, C.-A. & Oechslin, M.S. Spatio-temporal ERP analyses and source imaging". 2. Oechslin, M.S., Van De Ville D., Lazeyras F., Hauert, C.-A. & James, C.E. "Musical syntax processing as a function of musical expertise: Functional Magnetic Resonance Imaging data". 9-12.06-2011
<u>2012</u>	18 th Annual Meeting of the Organization for Human Brain Mapping, Beijing, China. 1. James, C.E., Oechslin, M.S., Van De Ville, D., Hauert, C.-A., Descoux, C. & Lazeyras, F. "The paradox of expertise: Musical training intensity induces progressive increases and decreases of grey mater density". 2. Oechslin, M.S., Descoux, C., Chanal, J.A., Van De Ville, D., Lazeyras, F. & James, C.E. "Hippocampus size predicts fluid intelligence in musically trained people". 0-14.06.2012
<u>2013</u>	Society for Neuroscience 43rd Annual Meeting. San Diego, USA, November 9-13, 2013. James, C.E., Oechslin, M.S., Van De Ville D., Lazeyras F., Michel, C.M. "ERP microstates and source imaging reveal progressive changes in cerebral processing of musical syntax with level of musical expertise".
<u>2014</u>	The Neurosciences and Music - V. Cognitive Stimulation and Rehabilitation. Dijon, France. James, C.E., Cereghetti, D., Rouillet, E., & Oechslin M.S. "Electrophysiological evidence for a specific neural correlate of musical violation expectation in primary-school children". 29.05-1-06.2014.
<u>2016</u>	22nd Annual Meeting of the Organization for Human Brain Mapping, Geneva, Switzerland. James, C.E., Coll, S., Vuichoud, N. & Grandjean, D. "Electrical Neuroimaging of Music Processing in Pianists with Absolute versus Relative Pitch". 26-30.06.2016.
<u>2017</u>	16th Rhythm Production and Perception Workshop, Birmingham. De Pretto, M., James, C.E. Duration-based timing induced neuronal entrainment during sensorimotor synchronization to irregular stimuli. 3-5.07.2017.
<u>2019</u>	Alpine Brain Imaging Meeting 2019; Champéry, Switzerland. James C.E., Altenmüller E., Kliegel M., Krüger T., Van De Ville D., Worschech F., Grouiller F., Sinke C., Hering, A., Scholz D., Juenemann K., Abdili, L., Marie, D. "Train the brain with music (TBM): Brain plasticity and cognitive benefits induced by musical training in elderly people in Germany and Switzerland, an RCT comparing musical instrumental practice to sensitization to music". 12-16.01.2020.

<u>2019</u>	Alpine Brain Imaging Meeting 2019; Champéry, Switzerland. Marie, D., Altenmüller E., Kliegel M., Krüger T., Van De Ville D., Worschech F., Grouiller F., Sinke C., Hering, A., Scholz D., Juenemann K., Abdili, L., James C.E. "Effects of a music intervention on brain structure and executive functioning in healthy elderly after 6 months: a randomized controlled trial on piano practice versus music sensitization". 12-16.01.2020
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Oral presentations, general public	
<u>2007</u>	Introduction to the "Closure Concert of the International Brain Week", "Music and the Brain". HUG. Geneva. 18.03.2007
<u>2009</u>	In collaboration with Prof. Dominique Muller (Medical Faculty, UNIGE), Continuous Education Program of the "Confédération des écoles genevoises de musique, rythmique Jacques-Dalcroze, danse et théâtre" "Musique, Cerveau et Perception Musicale". Geneva. 2.09.2009.
<u>2009</u>	"Conférence et spectacle <i>l'art et l'épilepsie</i> ", in collaboration with Dr. Fabienne Picard, HUG. Geneva. 14.10.2009
<u>2010</u>	Conference at the International Brain Week "Cerveau, musique et émotions". Uni Dufour, Geneva. 15.03.2010
<u>2010</u>	"L'expression musicale : du cerveau à l'émotion" "Festival de Jazz de Montreux". 16.07.2010.
<u>2013</u>	Connaissance 3, Université du troisième âge du Canton de Vaud, Morges. "Le cerveau musical". 29.11.2013
<u>2014</u>	Salon Planète Santé Life. Swiss Convention Center (EPFL ¹³), Lausanne. "La musique comme médicament". 13.11.2014
<u>2016</u>	Formation continue pour la "Confédération des écoles genevoises de musique, rythmique Jacques-Dalcroze, danse et théâtre". "Le cerveau musicien". Geneva. 6.09.2016.
<u>2018</u>	Carnotzet scientifique, L'art et la science, Neurhone, Musée d'art du Valais, Sion. "Comment la pratique musicale sculpte le cerveau et le comportement". 23.05.2018
<u>2018</u>	Salon Planète Santé Life. Palexpo Genève. "La puissance de la musique". 4.10.2018
<u>2019</u>	Oral presentation "L'impact de l'Orchestre en Classe au sein d'une école publique genevoise sur le développement cognitif et sensorimoteur de l'enfant". HEDS-GE Grande auditoire de la Roseraie, 12.03.2019
<u>2020</u>	Planned oral presentation « Perception et traitement cérébral de la musique tonale et atonale » Contrechamps, Salle des Eaux Vives, Genève, 04.11.2020, 18h15. <i>Postponed following the Covid-19 Pandemic, originally 19 mars 2020, 18h15</i>

Selected media presentations (n total = 36)	
<u>2010</u>	Newspaper interview "La musicalité est inscrite dans nos gènes", by Anne-Muriel Brouet, published in the "Tribune de Genève". 15.03.2010.
<u>2010</u>	Television interview by Chantal Pannatier for the "Téléjournal" of the "Télévision Suisse Romande" "Pourquoi notre cerveau réagit si vivement à la musique ?" 17.03.2010
<u>2010</u>	Radio interview "Faites chanter vos neurones", by Nancy Ypsilantis & Cécile Guérin for "Impatience", Radio Suisse Romande la 1 ^{ière} ". 14.09.2010
<u>2010</u>	Radio interview, portrait sur Clara James, "Musique et émotions", by Nancy Ypsilantis for "Impatience", "Radio Suisse Romande la 1 ^{ière} ". 24.12.2010
<u>2012</u>	Radio interview "Babylone", by Nancy Ypsilantis & Sarah Dirren, Espace 2 - Radio Suisse Romande. "Ouverture festival Musiques et Sciences". 12.11.2012.
<u>2014</u>	Television interview for "Specimen" "La musique, cette potion magique", TSR, 12.03.2014
<u>2016</u>	Radio interview as "grand invité" by Stéphane Gabioud, RTS1, CQFD. 1.04.2016
<u>2016</u>	Radio interview by Stéphane Gabioud, RTS1, CQFD, "Les secrets de la mémoire", Episode 8 "La musique" (on links between music and memory). 26.10.2016
<u>2016</u>	Television interview "flash" by Cédric Moret, RTS "Sport dimanche", "Le Mag: les sportifs utilisent la musique pour se préparer". 6.11.2016
<u>2017</u>	Radio interview by Bastien Confino, RTS1, CQFD "Rencontre avec Clara James ». 30.07.2017.
<u>2018</u>	RTS1, interview by Lydia Gabor, "On en parle", "Les effets positifs de la stimulation musicale chez les tout-petits ». 3.03. 2018.
<u>2018</u>	Journal Interview for « Revue Générations », by Audrey Sommer : « Bien vieillir, la musique pour rester jeune". April 2018.
<u>2018</u>	Interview for Planète Santé, le portail médical, Magazine "Ma santé au quotidien" & the Journal la Côte, by Aude Raimondi https://www.planetesante.ch/Magazine/Psycho-et-cerveau/Mecanismes-du-cerveau/La-musique-modifie-notre-cerveau 9.05.2018

¹³ École Polytechnique Fédérale de Lausanne

<u>2019</u>	Interview in the journal "le Courrier" by Sébastien Brunshwig "Un orchestre en classe pour améliorer ses notes". https://lecourrier.ch/2019/03/11/un-orchestre-en-classe-pour-ameliorer-ses-notes/ 11.03.2019
<u>2019</u>	Radio interview (RTS), by Benoît Perrier, in "Magnétique " Espace 2. https://www.rts.ch/play/radio/magnetique/audio/le-magazine-de-toutes-les-musiques?id=10244193 11.03.2019
<u>2019</u>	Television interview, at « Léman bleu », by Pascal Décaillet, "Yeux dans les Yeux", « Musique et cerveau ». http://www.jemanbleu.ch/replay/video.html?VideoID=37582 11.03.2019
<u>2019</u>	Interview in the « Tribune de Genève », by Rocco Zacheo. "Jouer d'un instrument, un pas précieux pour les enfants" https://www.tdg.ch/culture/jouer-instrument-decisif-enfants/story/14394935 20.03.2019
<u>2019</u>	Interview for the section "Notre Santé" of the daily "La Côte", by Anne Devaux "Comment la musique vole au secours du cerveau". 11.05.2018
<u>2019</u>	Interview in the journal La Liberté, 29.06.2019, by Elisabeth Haas "Une super Oreille musicale"
<u>2019</u>	Television report on the ongoing SNSF 170410 project "Bien vieillir avec la musique"; RTS1 "36.9". https://pages.rts.ch/emissions/36-9/ 18.12.2019
<u>2020</u>	Interview in the « Tribune de Genève », by Rocco Zacheo. "Comment la musique peut nous aider en période de pandémie : La musique, ce vaccin universel qui console" https://www.tdg.ch/culture/musique/musique-vaccinuniversel-console/story/19588879 20.04.2020. Also published in « 24 heures » Vaud et régions https://www.24heures.ch/savoirs/sante/musique-vaccin-universel-console/story/28279147 19.04.2020.

Competences in informatics

Office	Word, Excel, Powerpoint, Outlook
Scientific	Matlab, SPM12 ¹⁴ , Cartool ¹⁵ , E-prime, Statistica, R (programming language)
Imaging	Adobe Photoshop & Illustrator

Publications in peer-reviewed scientific journals

James, C.E., Zuber, S., Dupuis-Lozeron, E., Abdili, L., Gervaise, D., and Kliegel, M. (2020). Formal string instrument training in a class setting enhances cognitive and sensorimotor development of primary school children. <i>Frontiers in Neuroscience</i> 14:567. doi: 10.3389/fnins.2020.00567. Swiss National Science Foundation; Grant number 100014_152841 (S. Zuber) .
Coll, S.Y., Vuichoud, N., Grandjean D., James, C.E. (2019). Neuroimaging of Music Processing in Pianists With and Without True Absolute Pitch. <i>Frontiers in Neuroscience</i> 13, 142. doi: 10.3389/fnins.2019.00142. Impact factor 3.7. Swiss National Science Foundation; Grant number: 100014_125050 (C.James)
De Pretto, M., Deiber, M.P., James, C.E. (2018). Steady-state evoked potentials distinguish brain mechanisms of self-paced versus synchronization finger tapping. <i>Hum Mov Sci</i> 61, 151-166. Impact Factor 1.84. doi:10.1016/j.humov.2018.07.007
Oechslin, M. S., Gschwind, M., & James, C. E. (2018). Tracking Training-Related Plasticity by Combining fMRI and DTI: The Right Hemisphere Ventral Stream Mediates Musical Syntax Processing. <i>Cereb Cortex</i> 28(4) 1209-1218. doi:10.1093/cercor/bhx033 Impact Factor: 8.29. Swiss National Science Foundation; Grant number: 100014_125050 (C.James)
James, C.E., Oechslin, M.S., Michel, C. M., & De Pretto M. (2017). Electrical Neuroimaging of Music Processing Reveals Mid-Latency Changes with Level of Musical Expertise. <i>Frontiers in Neuroscience</i> 11(613). doi: 10.3389/fnins.2017.00613. Impact factor 3.7. Swiss National Science Foundation; Grant number: 100014_125050 (C.James)
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¹⁴ Statistic Parametric Mapping: software for (f)MRI analyses

¹⁵ EEG analyses software

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