

Julie Anne Péron, Ph.D.

Contact

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Research interest

- Clinical and experimental neuropsychology
- From novelty to routinization: neuropsychology of habit
- Parkinson's disease, Gilles de la Tourette syndrome, obsessive compulsive disorders, depression, addiction, multiple sclerosis, normal pressure hydrocephalus, stroke, amnesia

Affiliations

Research groups

- Swiss Center for Affective Sciences (CISA), University of Geneva, Switzerland
- Center for the Interdisciplinary Study of Gerontology and Vulnerability (CIGEV), University of Geneva, Switzerland
- EA-4712 Behavior and Basal Ganglia, University of Rennes, France

Learned Societies (board / scientific committee member)

- France Parkinson organization (member of the scientific committee since 2018)
- Swiss Association of Neuropsychologists (member of the board and the continuing education committee since 2015)

Education

- 2008¹** **PhD in Biology and Health Sciences, University of Rennes, France**
Thesis entitled *"Role of the subthalamic nucleus and its cortico-subcortical connections in the recognition of facial and vocal expressions of emotion"*
Direct.: Prof. Marc Vérin (Behaviour and Basal Ganglia Unit (EA 4712))
Summa cum laude, "with highest honor"
- 2002-2004¹** **Master of Advanced Studies in Neuropsychology (DEA National de Neuropsychologie), University of Caen, France**
Research project entitled *"Role of direct personal experience in the preservation of knowledge in individuals with semantic dementia or Alzheimer's disease"*
Direct.: Prof. Pascale Piolino (INSERM) & Dr Serge Belliard (University Hospital of Rennes)
Magna cum laude, "with great honor"
- 2001-2002** **Postgraduate Diploma in Clinical Neuropsychology (DESS), University of Caen, France**
Research project entitled *"Hemispheric specialization in the identification of famous people. Comparative study of right and left temporal cortectomies in patients suffering from pharmaceutical treatment-resistant epilepsy"*
Direct.: Dr Serge Belliard (University Hospital of Rennes)
Magna cum laude, "with great honor"
- 2000-2001** **Licence in Psychology, University of Rennes, France**
Research project (3rd year) entitled *"Identification of famous people, access to semantic and morphological knowledge from names and faces"*
Direct.: Alain Lieury (University of Rennes)
Cum laude, "with honor"
- 1997-2000** **Bachelor's Degree in Psychology, University of Rennes, France**
Cum laude, "with honor"
- 1997** **French Baccalaureate** (specialization: Philosophy and Ancient Greek)
Lycée Emile Zola, Rennes, France
Cum laude, "with honor"

¹ Academic career specification: I conducted my master and PhD research whilst working full time as a clinical neuropsychologist in the Department of Neurology of Rennes University Hospital (see below, Clinical activity)

Licences to practice clinical psychology

- 2016** **Accreditation from the Swiss Association of Neuropsychologists**
Titre de spécialiste en neuropsychologie FSP
- 2015** **Accreditation from the Federation of Swiss Psychologists**
Titre de psychologue FSP
- 2014** **Licence to practice in Geneva**
Droits de pratiques à titre indépendant, Canton de Genève
- 2002** **Licence to practice in Europe**
ADELI registration no.: 359303815

Other qualifications

- 2015** **Training in eye movement desensitization and reprocessing (EMDR) therapy (Level 1)**
Swiss Institute of Psychotraumatology (IRPT), Lausanne, Switzerland
- 2001-2004** **Training in Ericksonian hypnosis**
“Emergences” association, Rennes, France

Awards and honours

- 2011** **Brittany Regional Council (France): *Young Investigator Award***
Video of the ceremony with 1987 Chemistry Nobel Prize winner J.-M. Lehn:
<http://www.youtube.com/watch?v=wObKFir71z0#t=3919>
- 2010** **French-Speaking Neuropsychological Society (SNLF): *Alain Agniel Prize***
- 2009** **Society for Neuroscience (SfN): *SfN Hot Topics 2009***
Paper entitled "*Recognition of emotional prosody is disrupted after subthalamic nucleus deep brain stimulation in Parkinson's disease*" selected with 500 others, out of a total of 18,000 submissions, for inclusion in the '*SfN Hot Topics 2009*' at the annual meeting of the Society for Neuroscience (Chicago, USA, October 17-21st)
- 2008** **American Academy of Neurology: *Future of Neuroscience***
Paper entitled "*Subthalamic nucleus stimulation affects orbitofrontal cortex in facial emotion recognition: A PET study*" selected for the '*Future of Neuroscience*' session at the 60th Annual Meeting of the American Academy of Neurology (Chicago, USA, April 12-19th)
- 2007** **Parkinson's Disease and Movement Disorders Society: *Highlighted posters***
Paper entitled "*Recognition of negative emotions is impaired by subthalamic nucleus deep brain stimulation in Parkinson's disease*" selected for the '*Highlighted posters*' session at the XIth International Congress of Parkinson's Disease and Movement Disorders (Istanbul, Turkey, June 3-7th)

Employment

Academic

- since 2017** **Senior Lecturer (Chargée de cours)**
20% from 01/01/2017 to present
Faculty of Psychology and Educational Sciences
University of Geneva, Switzerland
- since 2013** **Lecturer (Maître-assistante)**
40% from 01/01/2017 to present
60% from 04/01/2016 to 12/31/2016
100% from 04/01/2013 to 03/31/2016
Faculty of Psychology and Educational Sciences
University of Geneva, Switzerland
- 2009-2013** **Postdoctoral Research Associate (100%)**
100% from 09/01/2009 to 03/31/2013
Swiss Center for Affective Sciences (NCCR Affective Sciences)
University of Geneva, Switzerland
- 2000-2001** **Teaching assistant**
University of Rennes, France

Clinical

- since 2016** **Clinical neuropsychologist**
40% from 04/01/2016 to present
Neurology Department, University Hospitals of Geneva, Switzerland
- 2002-2009** **Clinical neuropsychologist (100%)**
Neurology Department, Pontchaillou University Hospital, Rennes, France
- 2001-2002** **Internship in Neuropsychology (100%)**
Brittany Regional Memory Resource and Research Centre (CMRR)
Neurology Department, Pontchaillou University Hospital, Rennes, France

Career break

- 2017-2019** **Maternity leave**
An extended period of maternity leave to bring up my daughter until she is old enough to start nursery school

Neuropsychologist or investigator for institutionally funded clinical trials

- since 2014** Neuropsychologist and principal investigator – “*Role of the cerebellum in emotional processing: insights from stroke patients*” - Department of Neurology, Geneva University Hospitals (Collab. Drs Saj and Assal)
- 2013-Present** Neuropsychologist and investigator - "*Electrophysiological activity of the subthalamic nucleus in response to emotional prosody in patients suffering from Parkinson's disease and obsessive-compulsive disorders*" - Department of Neurology, Geneva University Hospitals (Collab. Prof. Pollak)
- 2012-Present** Neuropsychologist and investigator - "*Emotional processing in cerebellar stroke patients*" - Department of Neurology, Geneva University Hospitals (Collab. Dr Saj)
- 2010-Present** Neuropsychologist - "*Treatment of severe, treatment-resistant OCD by high-frequency stimulation of the ventral striatum and subthalamic nucleus. Randomized single-blind clinical trial with medical and economic assessment*" ('STOC2' protocol - National programme for funding expensive innovative techniques, PSTIC). Sponsor: Bordeaux University Hospital
- 2009-Present** Neuropsychologist and investigator - ‘**Stroke and Emotions’ protocol (National hospital-based clinical research programme, PHRC):** "*Emotional processes and basal ganglia: Neuropsychological and neurophysiological study of modifications in emotional experience in patients in the chronic phase of ischaemic stroke. A pilot study*". PIs: Prof. Timsit, Department of Neurology, Brest University Hospital & Prof. Vérin,
- 2009-Present** Neuropsychologist - ‘**STOC UNI-BIL’ protocol (National PHRC):** "*Non-inferiority study of the effect of treating severe and treatment-resistant forms of obsessive-compulsive disorder by high-frequency right or left unilateral versus bilateral stimulation of the subthalamic nucleus*". PI: Dr Jaafari, University Hospital Centre, Poitiers, France
- 2009-Present** Neuropsychologist and investigator - ‘**EMODES’ protocol (funding from the Brittany Regional Centre for Innovation and Technology Transfer, CRITT):** "*fMRI investigation of emotional prosody and decision-making in depressive patients likely to attempt suicide*". PI: Dr Travers, EA 4712 Behaviour and Basal Ganglia Research Unit, Department of Adult Psychiatry, Rennes University Hospital, France
- 2008-2013** Neuropsychologist - ‘**Pré-STHYM’ protocol (private-sector funding from Medtronic):** "*Preliminary study assessing the effectiveness of deep brain stimulation in patients suffering from chronic, treatment-resistant depression*". PI: Prof. Millet, EA 4712 Behaviour and Basal Ganglia Research Unit, Department of Adult Psychiatry, Rennes University Hospital, France
- 2008-2013** Neuropsychologist - **Ancillary study to ‘Pre-STHYM’ protocol:** "*Effect of the chronic stimulation of the ventral striatum in depression on sexual and eating behaviour*". PI: Dr Drapier, EA 4712 Behaviour and Basal Ganglia Research Unit, Department of Neurology, Rennes University Hospital, France
- 2008-2013** Neuropsychologist and investigator - **Ancillary study to ‘Pre-STHYM’ protocol:** "*¹⁸FDG-PET study of modifications in brain glucose metabolism in patients suffering from chronic, treatment-resistant depression receiving stimulation of the ventral striatum*". PI: Dr Le Jeune, EA 4712 Behaviour and Basal Ganglia Research Unit, Department of Nuclear Medicine, CRLCC Eugène Marquis, Rennes, France

- 2008-2011** Neuropsychologist and investigator - **‘APOTEP’ protocol (private-sector funding from the Aguetant and Orkyn laboratories):** "*Effect of continuous dopaminergic stimulation via apomorphine pump on motor, cognitive and mental fluctuations in advanced Parkinson’s patients and ¹⁸FDG-PET cerebral metabolic correlates*". PI: Prof. Vérin, EA 4712 Behaviour and Basal Ganglia Research Unit, Department of Neurology, Rennes University Hospital, France
- 2006-2008** Neuropsychologist - **‘STOC’ protocol (National PHRC):** "*Treatment of severe obsessive-compulsive disorder by continuous bilateral subthalamic nucleus high-frequency deep brain stimulation*". PI: Dr Mallet. Sponsor: Paris Public Hospital Authority, Regional Clinical Research Division
- 2005-2007** Neuropsychologist - **‘STIMPARK II’ protocol (Rennes University Hospital Clinical Research Committee, COREC):** "*Analysis of selective attention mechanisms at different stages in the processing of emotional information in stimulated Parkinsonian patients*". PI: Prof. Vérin, EA 4712 Behaviour and Basal Ganglia Research Unit, Department of Neurology, Rennes University Hospital, France

Consultant or investigator for privately-funded clinical trials

- 2010-2011** Neuropsychologist – Boston Scientific – Neuromodulation Division - VANTAGE STUDY Vercise™ implantable stimulator for treating Parkinson's disease
- 2010-2011** Neuropsychologist – Pierre Fabre Laboratories – Phase-II study assessing the effect of 6 months’ treatment with DC158AM on the fatigue of patients with Parkinson’s disease
- 2010-2011** Neuropsychologist – Lundbeck – Phase III of the 11018 study assessing the effectiveness and tolerance of Memantine® in patients with Parkinson’s disease and Lewy body dementia
- 2003-2004** Neuropsychologist –Pharmacyclics – Phase II of the PCYC-0211 study assessing the effectiveness of injections of Xcytrin® (otexafin gadolinium) in the treatment of brain metastases in patients with cancer
- 2003-2004** Consultant – Sanofi Synthélabo – Phase II of the EFC 5286 study assessing the effectiveness and tolerance of SR57667B in patients in the mild to moderate stages of Alzheimer’s disease
- 2003-2004** Neuropsychologist – Servier Laboratories – CORX-CX516-012 study assessing the effectiveness and tolerance of CX516 in patients with mild cognitive impairment (MCI)
- 2003-2004** Neuropsychologist – Lundbeck – Phase III of the 99679 study assessing the effectiveness and tolerance of Memantine® in patients in the mild to moderate stages of Alzheimer’s disease

Research grant support

As principal investigator or co-applicant

- 2018** **Swiss National Science Foundation** - CHF 538.7 K
"Cerebellar contribution to human emotion: insights from stroke and neuroimaging"(N° 105314_182221/1)
PI
- 2018** **Faculty of Psychology, University of Geneva** - CHF 20.4K
25% d'assistant A2 1 yr
PIs : Dre Péron, Professeur Desrichard et Professeur Rudrauf
"The investigation of contextual variability of older adults' cognitive performances using virtual reality"
- 2016** **Swiss National Science Foundation** - CHF 305.6 K
"Integration of acoustic information and attentional processes in human emotional prosody decoding"(N° 105314_140622)
Co-applicant
- 2016** **Faculty of Psychology, University of Geneva** - CHF 20.4K
25% d'assistant A2 1 yr
PIs : Dre Péron, Professeur Kliegel et Professeur Ghisletta
"Habits in healthy and pathological aging"
- 2014** **Butticaz Foundation** - CHF 4 K = € 3.2 K
"Role of the basal ganglia in EMDR therapy efficacy"
PI
- 2012** **Faculty of Psychology, University of Geneva** - CHF 2.5 K
For the organization of an international congress entitled *"What does human intracerebral recording tell us about emotions?"* held in Geneva on Sept. 19-21st, 2012
PI
- 2012** **Swiss National Science Foundation** - CHF 10 K
For the organization of an international congress entitled *"What does human intracerebral recording tell us about emotions?"* held in Geneva on Sept. 19-21st, 2012
PI
- 2012** **NCCR Affective Sciences** - CHF 20 K
For the organization of an international congress entitled *"What does human intracerebral recording tell us about emotions?"* held in Geneva on Sept. 19-21st, 2012
PI
- 2009-2011** **AXA Research Fund postdoctoral fellowship*** - € 120 K
"Electrophysiological activity of the ventral striatum during the processing of emotional prosody in patients with chronic, treatment-resistant depression".
PI
***Of note: Worldwide invitation to tender, 26 projects selected in 2009 across all disciplines**

As investigator²

- 2012-2015** **Swiss National Science Foundation (SNSF)** - CHF 440 K = € 356
"Functional specialization and integration of the basal ganglia in human emotional prosody decoding" (No. 105314_140622)
PI: Prof. Grandjean
- 2010-2014** **Hospital-Based Clinical Research Programme (PHRC-IR)** - €120 K
"Electrophysiological activity of the subthalamic nucleus during the processing of emotional and motivational information in patients with Parkinson's disease"
PI: Prof. Vérin
- 2010-2014** **Emergent Challenges of the Department for Research and Innovation, University of Rennes** - € 12 K
"Electrophysiological activity of the subthalamic nucleus during the processing of emotional and motivational information in patients with Parkinson's disease"
PI: Prof. Vérin
- 2007-2009** **University Hospital Clinical Research Committee (COREC), University of Rennes** - € 28 K
"Effects of subthalamic nucleus deep brain stimulation on the recognition of vocally expressed emotion in Parkinson's disease"
PI: Prof. Vérin
- 2005-2007** **Hospital-Based Clinical Research Programme (PHRC-IR)** - €74 K.
"Effects of subthalamic nucleus deep brain stimulation on social cognition in Parkinson's disease"
PI: Prof. Vérin

² I designed and wrote these projects but were unable to be considered as PI because these grants were financing my own position

Major collaborations

Switzerland

University Hospitals of Geneva

- Neurology Dpt
 - Neuropsychology Unit - Dr. Saj
 - Behavioral and cognitive Neurology Unit - Dr. Assal
 - Movement Disorders Unit - Professors Burkhard and Krack
 - Epileptology Unit - Professor Seeck
 - Clinical electrophysiology Unit - Dr. Boex and Tyrand
 - Neuroimmunology Unit - Professor Lalive d'Epinay
- Neurosurgery Dpt - Professor Schaller and Dr Momjian
- Psychiatry Dpt - Professor Mallet

University of Geneva

- Faculty of Psychology and Educational Sciences
 - Neuropsychology of emotion - Professor Grandjean
 - Methodology and data analyses - Professors Renaud & Ghisletta
 - Applied psychology - Professor Desrichard
 - Cognitive aging - Professor Kliegel
 - Psychometrics and personality - Dr. Lecerf

Lausanne University Hospital

- Neurosurgery Dpt - Dr Bloch
- Neurology Dpt - Dr Sokolov

University of Zurich

- Institute of Psychology - Prof. Fruehholz

France

University Hospital of Rennes

- Neurology Dpt & EA-4712 Behavior and Basal Ganglia - Prof. Vérin
- Neurosurgery Dpt - Dr. Haegelen
- Clinical Neurophysiology Dpt - Dr. Sauleau
- Adult Psychiatry Dpt - Prof. Drapier
- UMR 1099 LTSI, Médecis INSERM - Dr. Jannin

University Hospital of Poitiers

- Adult Psychiatry Dpt & Clinical Investigation Center, INSERM 0802 - Prof. Jaafari

Pitié-Salpêtrière University Hospital & Brain and Spine Institute, Paris

- Behavior, Emotion, and Basal Ganglia Group - Drs. Yelnik & N'Diaye

Fernand-Vidal University Hospital

- Adult Psychiatry Dpt - Dr Biseul

Belgium

Catholic University of Leuven

→ Cognitive Neuroscience Unit - Prof. Philippot

Germany

Heinrich Heine University and University Hospital of Düsseldorf

→ Neurology & Medical Psychology Dpt - Prof. Schnitzler & Dr. Wojtecki

Scientific coordination of multicentre projects

- Since 2014** **Coordinator of the neuropsychological assessments** of the study entitled: "*Deep brain stimulation in patients suffering from chronic, treatment-resistant depression*" ('STHYM' - National PHRC)
- PI: Prof. Millet - Sponsor: Rennes University Hospital
- Centres involved: Bordeaux, Clermond-Ferrand, Grenoble, Lille, Lyon, Marseille, Nancy, Nantes, Nice, Poitiers, Rennes and Toulouse university hospitals, and Paris Ste-Anne and Pitié-Salpêtrière hospitals)
- Since 2014** **Coordinator of the ancillary study** entitled "*Electrophysiological activity of the ventral striatum during the processing of emotional prosody in patients with chronic, treatment-resistant depression*", within the framework of the 'STHYM' protocol (centres involved: Bordeaux, Clermond-Ferrand, Grenoble, Lille, Lyon, Marseille, Nancy, Nantes, Nice, Poitiers, Rennes and Toulouse university hospitals, and Paris Ste-Anne and Pitié-Salpêtrière hospitals)
- Since 2008** **Coordinator of the ancillary study** entitled "*Effects of high-frequency subthalamic nucleus deep brain stimulation on the recognition of emotions communicated by the voice in patients with obsessive-compulsive disorder*", within the framework of the '**STOC UNI-BIL' protocol**. PI: Dr Jaafari, Department of Adult Psychiatry, Poitiers University Hospital, France. Sponsor: Poitiers University Hospital (centres involved: Clermond-Ferrand, Lyon, Marseille, Nancy, Nice, Poitiers, Rennes and Toulouse university hospitals, and Paris Ste-Anne hospital)
- 2008-2013** **Coordinator of neuropsychological assessments** under the aegis of the '**Pre-STHYM' protocol** "*Preliminary study assessing the effectiveness of deep brain stimulation in patients suffering from chronic, treatment-resistant depression*". PI: Prof. Millet (centres involved: Bordeaux, Clermond-Ferrand, Grenoble, Lille, Lyon, Marseille, Nancy, Nantes, Nice, Poitiers, Rennes and Toulouse university hospitals, and Paris Ste-Anne and Pitié-Salpêtrière hospitals)
- 2008- 2013** **Coordinator of the ancillary study** entitled "*Electrophysiological activity of the ventral striatum during the processing of emotional prosody in patients with chronic, treatment-resistant depression*", within the framework of the '**Pre-STHYM' protocol** (centres involved: Bordeaux, Clermond-Ferrand, Grenoble, Lille, Lyon, Marseille, Nancy, Nantes, Nice, Poitiers, Rennes and Toulouse university hospitals, and Paris Ste-Anne and Pitié-Salpêtrière hospitals)

Invited talks / conferences

- 2019** Conference at the Women's Added Value in the Economy Annual Conference, Career Women's Forum, Graduate Institute of International and Development Studies, Geneva, Switzerland
- 2018**³ Talk at the Department of Anatomical, Histological, and Forensic Medicine, University Sapienza Roma, Italia (Dr Mirabella)
- 2018** Round table on the French-speaking Clinical Neuropsychology at the National Congress of Clinical Neuropsychology (CNNC 3), Amiens, France
- 2018** Talk at the Seminar of the Neuropsychology Unit, Hospital of Neuchâtel, Switzerland
- 2018** Talk at the Seminar of the Neurology/Neuropsychology Hospital of Fribourg, Switzerland (Dr Accola)
- 2018** Conference at the 10th International Congress of Neuropsychology of Frontal Lobes and Executive Functions, Angers, France (Professeur Allain)
- 2018**³ Talk at the 7th edition - Human Resources Annual Forum, Scienceo, Nantes, France
- 2017**³ Conference at the 37th European Winter Conference on Brain Research, Les Arcs 1800, France (Professeure Baunez)
- 2016** Chairperson at the International deep brain stimulation symposium, Charité University Hospital, Berlin (Prof. Kühn)
- 2016** Talk at the Seminar of the Interfaculty Center of gerontology (CIGEV), UNIGE (Prof. Kliegel)
- 2016** Conference and chairperson at the 11th International Congress on Non-Motor Dysfunctions in Parkinson's Disease and Related Disorders, 6–9 October 2016; Ljubljana, Slovenia
- 2016** Conference at the 29th European College of Neuropsychopharmacology, Vienna, Austria
- 2015** Talk at the Clinical Neuroscience Seminar, Lausanne University Hospital

³ Declined for maternity leave

- 2015** Conference at the Swiss Doctoral School in Affective Sciences, CISA, University of Geneva
- 2015** Conference and chairperson at the 15th European Congress on Clinical Neurophysiology, Brno, Czech Republic
- 2015** Conference at the French speaking Psychiatry and Neurological Society annual congress, Tours, France
- 2015** Conference at the Signoret annual congress, Unit Inserm U1077, Neuropsychology Laboratory, University of Caen (Prof. Eustache)
- 2014** Talk at the Geneva Motivation Lab, Faculty of Psychology, University of Geneva (Prof. Gendolla)
- 2014** Talk at the French Academy of Sciences, Rennes, France
- 2013** Talk at the Centre for Movement Disorders and Neuromodulation, Department of Neurology, Charité University Hospital, Berlin (Prof. Kühn)
- 2013** Talk at the Centre for Movement Disorders and Neuromodulation, Department of Neurology, Heinrich Heine University, Düsseldorf, Germany (Prof. Schnitzler)
- 2013** Talk at the Department of Neuropsychology, Geneva University Hospitals (Dr. Assal)
- 2013** Talk at the Brain and Spine Institute, Paris (Prof. Mallet)
- 2013** Talk at the Department of Neurology, Geneva University Hospitals (Prof. Pollak)
- 2010** Conference at the French speaking Neuropsychological Society annual congress, Lille, France
- 2009** Conference at the French speaking Neurological Society annual congress, Lille, France

Teaching

Graduate

Courses

- Since 2016** "*Neuropsychology of habit*" (3 ECTS in French), Master in Psychology, Department of Psychology and Educational Sciences, University of Geneva, Switzerland
- Since 2013** "*Behavioural Integration, Action Organisation, and Emotional Processing*" (3 ECTS in French), Master in Affective Psychology and Neuroscience, Department of Psychology and Educational Sciences, University of Geneva, Switzerland

Lectures

- Since 2018** "*Cognition: emotional processing and social cognition*" (3hrs lecture in French), Master in Clinical Neuroscience, Department of Health Sciences, University of Upper Brittany, Rennes, France
- Since 2016** "*Experimental Neuropsychology: emotional processing in Parkinson's disease*" (3hrs lecture in English), Master in Neuroscience, Department of Medecine, University of Geneva, Switzerland
- Since 2014** "*Emotional processing in Parkinson's disease*" (2hrs lecture in French), National French Master in Neuropsychology and Neuroscience, University of Lyon 2, France
- 2007-2009** "*Neuropsychology of Human Memory*" (6hrs lecture in French), "*Neuropsychology of Instrumental Functioning*" (4hrs lecture in French), "*Neuropsychology of Executive Functions*"(4hrs lecture in French), "*Neuropsychology of Emotional Processes and Social Cognition*"(4hrs lecture in French), M2 in Animal and Human Behaviour, Department of Life and Environmental Science, University of Rennes I, France
- 2006-2009** "*Clinical Neuropsychology, a Cognitive Approach*" (4hrs lecture in French), "*Deep Brain Stimulation in Neuropsychiatric Pathologies*" (4hrs lecture in French) M1 in Animal and Human Behaviour, University of Rennes I, France
- 2004-2005** "*The Neuroanatomy of Language*" (4 hrs lecture in French), M2 in Cognitive Psychology, Department of Cognitive Psychology, University of Rennes, France

Postgraduate

- Since 2018** "*Intracranial recordings and human emotions*" (4 hrs lecture in English), University Diploma in Stereotaxy and Psychiatry, Assistance Publique des Hôpitaux de Paris, Paris, France
- Since 2018** "*Neuropsychology of Emotional Processes and Social Cognition*" (4hrs lecture in French), Master in Clinical Neuroscience, University of Upper Brittany, Rennes, France

2005-2006 "*Neuropsychological Assessment of Dementias*" (6hrs lecture in French), Postgraduate specialization and diploma in geriatrics, Faculty of Medicine, University of Rennes I, France

Continuing Education

Since 2015 Organization of the Annual Continuing Education Conference of the Swiss Association of Neuropsychologists (about 80-100 participants each year)

- 2019 topic: « *Neuropsychology and neuro-immunology* »
- 2018 topic: « *Memory systems throughout the lifespan* »
- 2017 topic: « *Contribution and limits of neuroimaging in clinical neuropsychology: from diagnosis to rehabilitation* »
- 2016 topic: « *Clinical neuropsychology of emotion* »

2016 Lecture entitled "*Toward an integrative approach in clinical neuropsychology of emotion*", Annual Continuing Education Conference of the Swiss Association of Neuropsychologists

Online training and other medias

2016 Participation of the Massive Open Online Course (MOOC) in Neuroscience entitled: "*Audition, language, music*"

2003 Participation in the development of a DVD, in partnership with Lundbeck, on a neuropsychological tool for assessing patients in the advanced stages of Alzheimer's disease and associated disorders (Severe Impairment Battery, SIB) aimed at geriatricians and neurologists

Supervision

Post-doctoral level

Since 2013 Dr Benis, Faculty of Psychology, University of Geneva, CH
Basal ganglia, rythm and vocal emotion

PhD

Since 2017 M^{me} Murray, FPSE, Faculty of Psychology, University of Geneva, CH
Visuo-spatial integration and vocal emotion

Master in Psychology

2018-2020 M^{me} Thorimbert, Faculty of Psychology, University of Geneva, CH
2016-2018 M^{me} Wenig, Faculty of Psychology, University of Geneva, CH
2015-2018 M^{me} Doudenkova, Faculty of Psychology, University of Geneva, CH
2015-2017 M^{me} Thomasson, Faculty of Psychology, University of Geneva, CH
M^{me} Cobarro, Faculty of Psychology, University of Geneva, CH
M^{me} André, Faculty of Psychology, University of Geneva, CH
2014-2016 M^{me} Correa-Batiz, Faculty of Psychology, University of Geneva, CH
M^{me} Gavand, Faculty of Psychology, University of Geneva, CH
2012-2014 M^{me} Siegenthaler, Faculty of Psychology, University of Geneva, CH
2012-2014 M^{me} Python, Faculty of Psychology, University of Geneva, CH
2009-2010 M^{me} Guillemot, Faculty of Psychology, University of Rennes, France

Research internship

2018-2019 M^{me} Selosse, Faculty of Psychology, University of Geneva, CH
2018-2019 Mr Voruz, Faculty of Psychology, University of Geneva, CH
2016-2017 M^{me} Stirnimann, Faculty of Psychology, University of Geneva, CH

Clinical internship in neuropsychology

Since 2017 Postgraduate internship in neuropsychology are closed in the
Neurology Unit, Dpt of Neurology, University Hospitals of Geneva
2016-2017 M^{me} Bapst, University Hospitals of Geneva, CH
M^{me} Müller, University Hospitals of Geneva, CH
2015-2016 M^{me} Collignon, University Hospitals of Geneva, CH
M. Genoud-Prachex, University Hospitals of Geneva, CH
2009-2010 M^{me} Guillemot, University Hospital of Rennes, France
2008-2009 M. Christen, FPSE, University Hospital of Rennes, France

Theses in medicine

2010 Dre Gibou, Neurology, University Hospital of Rennes, France
2009 Dre Ory, Neurology, University Hospital of Rennes, France
Dre el Tamer, Psychiatriy, University Hospital of Rennes, France

Jury

PhD theses

Referee

2018 M^{me} Smith, PhD in Neuroscience, Sorbonne University, Paris, France
2019 M. Benzina, PhD in Neuroscience, Sorbonne University, Paris, France

Examiner

2016 M^{me} Argaud, PhD in Psychology, FPSE, UNIGE

Master level in Psychology

2017 M^{me} Chaupond, Master in Psychology, FPSE, UNIGE
2016 M^{me} Boeri, Master in Psychology, FPSE, UNIGE
2015 M^{me} Jeanmonod, Master in Psychology, FPSE, UNIGE
M^{me} Chaabi, Master in Psychology, FPSE, UNIGE
M^{me} Domingos Felicio, Master in Psychology, FPSE, UNIGE
2014 M^{me} Malagurski, Master in Neuropsychology, Lyons, Toulouse and
Grenoble Universities, France

Theses in Medicine

2006 Dr Lazar, thesis of general medicine

University and non-university scientific services

- Since 2018** Member of the Scientific Committee (Humanities and Social Sciences Division), France Parkinson non-Profit Organization
- Since 2016** Member of the Board, Swiss Association of Neuropsychologists (ASNP)
- Since 2015** Member of the Continuing Education Committee, Swiss Association of Neuropsychologists (ASNP)
- Since 2013** Member of the Faculty Program Committee, Faculty of Psychology, University of Geneva, Switzerland
- 2013** Member of the scientific committee, European Clinical Neurophysiology Society
- 2012** Member of the Section of Neuropsychology of the French group of Neuromodulation by implanted material ("Club français de Neuromodulation par Matériel Implanté")
- 2002-2009** Participation in the creation of the Network of Clinical Neuropsychologists of Brittany, France
- 2002-2006** Vice President of the *Association of Neuropsychology Students* of Caen, Fr

Congress organization

- 2012** Member of the scientific and organizing Committee of the "15th European Congress on Clinical Neurophysiology", Brno, Czech Republic
- 2012** Organization - together with Profs. Grandjean and Vuilleumier, and Dr Saj - of the international congress "What does human intracerebral recording tell us about emotions?" held in Geneva on Sept. 19-21st, 2012.

Articles in peer-reviewed journals

* As first or last author

2018⁴

- 42 - *Stirniman, N., N'Diaye, K., Le Jeune, F., Houvenaghel, J.F., Robert, G., Drapier, S., Drapier, D., Grandjean, D., Vérin, M., Sauleau, P., **Péron, J.** Left but not right-onset Parkinson's disease patients display vocal emotion deficits: a PET study. *Neuropsychologia*.
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ORAL COMMUNICATIONS AND POSTERS

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- Benis, D., Millet, B., Fossati, P., Cornu, P., Navarro, S., Arbus, C., Yroni, A., Chaynes, P., Reyman, JM., Naudet, F., Grandjean, D., **Péron, J.** (2015). Electrophysiological correlates of emotional prosody recognition in the nucleus accumbens of major and resistant depressive patients. Communication orale, *Opto-DBS 2015 meeting*, Genève, Suisse, 22-24 juin.
- **Péron, J.**, Haegelen, C., Sauleau, P., Tamarit, L., Milesi, V., Houvenaghel, JF., (...) & Grandjean, D. (2014). Electrophysiological activity of the subthalamic nucleus in

response to emotional prosody: An intracranial ERP study in Parkinson's disease. Poster, 30th *International Federation of Clinical Neurophysiology*, Berlin, Allemagne, 19-23 mars.

- **Péron, J.**, Cekic, S., Haegelen, C., Sauleau, P., Drapier, D., Verin, M., Grandjean, D. (2013). Influence of the relevant acoustic features on the recognition of emotional prosody following subthalamic nucleus deep brain stimulation in Parkinson's disease. Poster, *Society for Neuroscience*, San Diego, 13 nov.
- **Péron, J.**, Cekic, S., Haegelen, C., Sauleau, P., Drapier, D., Verin, M., & Grandjean, D. (2013). Influence of the relevant acoustic features on the recognition of emotional prosody following subthalamic nucleus deep brain stimulation in Parkinson's disease. Poster, 4th *Meeting of the European Societies of Neuropsychology*, Berlin, Allemagne, 12-14 septembre.
- **Péron, J.** & Grandjean D. (2013). Subthalamic nucleus: a key structure for emotional component synchronization in humans. Poster, *International Conference on Deep Brain Stimulation*, Düsseldorf, Allemagne, 15-16 avril.
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- **Péron, J.**, LeJeune, F., Lalys, F., Jannin, P., Grandjean D., Vérin., M. (2012). Effects of subthalamic deep brain stimulation in the recognition of emotional prosody: a PET study in Parkinson's disease. Poster, *Annual meeting of the Social and Affective Neuroscience Society*, New York, 20-21 avril.
- **Péron, J.**, el Tamer, S., Grandjean, D., Travers, D., Drapier, D., Vérin, M., Millet, B. (2010). Major depressive disorder skews the recognition of emotional prosody. Poster, *Auditory Cognitive Neuroscience Symposium, Brain, Music, and Sound research laboratory (BRAMS) annual scientific day*, Montréal, Canada, 16 avril.
- **Péron, J.**, el Tamer, S., Grandjean, D., Travers, D., Drapier, D., Vérin, M., Millet, B. (2010). Major depressive disorder skews the recognition of emotional prosody. Poster, *Cognitive Neuroscience Society*, Montréal, Canada, 17-20 avril.
- Grandjean, D., **Péron, J.**, Milési, V., Tamarit, L. Modulations of human extrastriate visual neuronal activity by emotional voices: human intracranial recordings. Poster, *Cognitive Neuroscience Society*, Montréal, Canada, 17-20 avril.
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- **Péron, J.**, Le Jeune, F., Sauleau, P., Haegelen, C., Drapier, D., Rouaud, T., Drapier, S., & Vérin, M. (2008). La reconnaissance des émotions est altérée après la stimulation cérébrale profonde du noyau sous thalamique. *Journées de Printemps de*

la Société de Neuropsychologie de Langue Française (S.N.L.F), Amiens, France, 23-24 mai.

- Le Jeune, F., **Péron, J.**, Biseul, I., Fournier, S., Sauleau P., Drapier, S., Haegelen, C., Drapier, D., Millet, B., Garin, E., Herry, J-Y., Malbert, C-H., Vérin, M. (2008). Subthalamic nucleus stimulation affects orbitofrontal cortex in facial emotion recognition: a PET study. Poster, *60th American Academy of Neurology Annual Meeting, Chicago, USA*, 12-19 avril.
- Le Jeune, F., **Péron, J.**, Biseul, I., Fournier, S., Sauleau P., Drapier, S., Haegelen, C., Drapier, D., Millet, B., Garin, E., Herry, J-Y., Malbert, C-H., Vérin, M. (2008). Subthalamic nucleus stimulation affects orbitofrontal cortex in facial emotion recognition: a PET study. Poster, *22th International Congress of Parkinson's Disease and Movement Disorders, Chicago, USA*, 22-26 juin.
- **Péron, J.**, Biseul, I., Fournier, S., Drapier, S., Drapier, D., Sauleau, P., Haegelen, C., Vérin, M. (2007). Recognition of negative emotions is impaired by subthalamic stimulation in Parkinson's disease. Poster présenté au *11th International Congress of Parkinson's disease and Movement Disorders, Istanbul, Turquie*, 3-7 juin.
- **Péron, J.**, Biseul, I., Fournier, S., Drapier, S., Drapier, D., Thomas-Ollivier, V., Cohen, R., Vérin, M. (2007). Social cognition and emotional recognition in early and late stages of Parkinson's disease. Poster, *11th International Congress of Parkinson's disease and Movement Disorders, Istanbul, Turquie*, 3-7 juin.
- Drapier, D. **Péron, J.**, Sauleau, P., Drapier, S., Travers, D., Bourguignon, A., Millet, B Vérin, M. (2007). Apathetic patients after deep brain stimulation of the subthalamic nucleus in Parkinson's disease have associated fear recognition impairment. Poster, *11th International Congress of Parkinson's disease and Movement Disorders, Istanbul, Turquie*, 3-7 juin.
- **Péron, J.**, Piolino, P., Lemoal, S., Biseul, I., Leray, E., Eustache, F., Belliard, S. (2007). Rôle de l'expérience personnelle directe dans la préservation des connaissances sémantiques spécifiques aux personnes dans la démence sémantique et la maladie d'Alzheimer. Communication orale, *Journées de Printemps de la Société de Neuropsychologie de Langue Française, Tours, France*, 25-26 mai.
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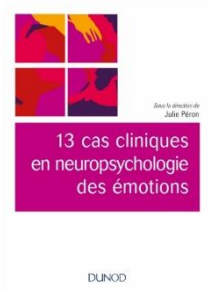
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- Drapier, D., **Péron, J.**, Sauleau, P., Drapier, S., Travers, D., Bourguignon, A., Millet, B., Vérin, M. (2007). Apathetic patients after deep brain stimulation in Parkinson's disease have an associated fear recognition impairment. Poster, *59th International congress of the American Academy of Neurology*, Boston, USA, 28 avril-5 mai.
- Fournier, S., **Péron, J.**, Biseul, I., Philippot, P., Drapier, S., Drapier, D., Vérin, M. (2007). Emotional experience in early and late stages of Parkinson's disease. Poster, *11th International Congress of Parkinson's disease and Movement Disorders*, Istanbul, Turquie, 3-7 juin.
- Rouaud, T., Drapier, S., **Péron, J.**, Leray, E., Sauleau, P., Rolland, Y., Vérin, M. (2007). Radiological and clinical predictive factors of long-term outcome of bilateral subthalamic stimulation in advanced Parkinson's disease. Poster, *XIth International Congress of Parkinson's Disease and Movement Disorders*, Istanbul, Turquie, 3-7 juin.
- Blanchard, S., Drillet, G., Sauleau, P., Drapier, S., Gillioz, AS., Rouaud, T., **Péron, J.**, Vérin, M. (2007). Prospective comparison of weight gain and energy intake after subthalamic pallidal and thalamic deep brain stimulation in Parkinson's disease. Communication orale, *XIth International Congress of Parkinson's Disease and Movement Disorders*, Istanbul, Turquie, 3-7 juin.
- Fournier, S., Biseul, I., **Péron, J.**, Philippot, P., Drapier, S., Drapier, D., Sauleau, P., Haegelen, C., Vérin, M. (2007). Effect of subthalamic nucleus deep brain stimulation on emotional experience in Parkinson's disease patients. Poster, *21th International Congress of Parkinson's Disease and Movement Disorders*, Istanbul, Turquie, 3-7 juin.
- Gillioz, AS., **Péron, J.**, Leray, E., Drapier, S., Sauleau, P., Drapier, D., Stefanni, C., & Vérin, M. (2007) Comparative cognitive quality of life and motor long term follow up of subcutaneous continuous infusion of apomorphine or subthalamic nucleus deep brain stimulation in patients with advanced Parkinson's disease. Poster, *59th International congress of the American Academy of Neurology*, Boston, USA, 28 avril-5 mai.
- Drapier, S., Rouaud, T., **Péron, J.**, Leray, E., Rolland, Y., Vérin, M. (2007). Pedunculopontine Nucleus Lesions in Preoperative MRI Are Predictive for Worsening of Axial Symptoms after STN-DBS in Parkinson's Disease. Poster, *59th International congress of the American Academy of Neurology*, Boston, USA, 28 avril-5 mai.

- Vérin, M., Drapier, D., Sauleau, P., Drapier, S., Biseul, I., **Péron, J.**, Raoul, S., Millet, B. (2006). Emotions, motivations et stimulation sous-thalamique : où en sommes-nous en 2006 ? Communication orale, *Journée annuelle extraordinaire de la Société Française de Neurologie*, Paris, France, 19 janvier.
- Gillioz, A.S., **Péron, J.**, Leray, E., Drapier, S., Sauleau, P., Stefani, C., Vérin, M. (2005). Comparative cognitive quality of life and motor long term follow up of subcutaneous continuous infusion of apomorphine or subthalamic nucleus deep brain stimulation in patients with advanced Parkinson's disease. Poster, *21th International Congress of Parkinson's Disease and Movement Disorders*, Kyoto, Japon, 28 oct-2 nov.
- Belliard, S., Vercelletto M., Lemoal, S., **Péron, J.**, Lebaill, B., & Poncet, M. (2005). Bases neuro-anatomiques du système sémantique spécifique aux personnes. Etude chez 25 patients déments sémantiques. Communication orale, *Journées de Printemps de la Société de Neuropsychologie de Langue Française*, Grenoble, France, 20-21 mai.
- Stefani, C., Drapier, S., Péron, J., Sauleau, P., Biseul, I., Vérin, M. (2005). Continuous subcutaneous apomorphine infusion: an effective and cognitive well tolerated solution for untreatable motor fluctuations in patients with Parkinson's disease. Poster, *9th International Congress of Parkinson's disease and Movement Disorders*, New Orleans, USA, mars.
- Stefani, C., Drapier, S., **Péron, J.**, Sauleau, P., Biseul, I., Vérin, M. (2005). Continuous subcutaneous apomorphine infusion: an effective and cognitive well-tolerated solution for untreatable motor fluctuations in patients with Parkinson's disease. Poster, *American Academy of Neurology*, Miami, avril.

Editing and reviewing

Editor



2018

Péron, J. (Ed.). [Clinical Cases in Neuropsychology of Emotion]. Paris: Dunod.

2014

Guest Editor of a special issue published in *Cortex* entitled "What does human intracerebral recording tell us about emotions?"

Journal reviewer (selection)

Publons profile at : <https://publons.com/author/1512009/julie-peron#profile>

Brain - Brain and Cognition - Brain Topography - Clinical Physiology and Functional Imaging - Computer in Biology and Medicine - Emotion Review European Journal of Neurology - Frontiers in Human Neuroscience - Movement Disorders - Neuropsychologia - Neuropsychology - Parkinsonism and Related Disorders - Social and Affective Neuroscience - Social Neuroscience

Grant reviewer

- France Parkinson non-profit organization
- Neurological Foundation of New Zealand
- French National Agency for Research
- Auckland Medical Research Foundation Project Grant (New Zealand)
- Translational and Clinical Research Committee of the University Hospital of Rennes (France)
- Belgian National Agency for Research
- Alzheimer France
- Parkinson's UK
- Aquitaine Region Council (France)

Abstract Conference reviewer

- InterSpeech
- International Society for Research on Emotion (ISRE)

Education and communication for the lay community

- 2018** *Newspaper interview* entitled "*Décoder l'activité cérébrale, futur remède contre la dépression ?*" [Decode brain activity, future cure for depression?], published by *Libération*, September 18th, 2018. https://www.liberation.fr/sciences/2018/09/19/decoder-l-activite-cerebrale-futur-remede-contre-la-depression_1679798
- 2015** **Organization of an interactive workshop** for open days of the Faculty of Psychology and Educational Sciences (University of Geneva)
- 2014** *Newspaper article* entitled "L'Académie des Sciences en Bretagne", published by Magazine ArMen, La Bretagne Eclairée, N°201, p. 68
- 2014** *Communication article* entitled "En bref ... Sciences Affectives. Numéro Spécial du journal Cortex édité par Julie Péron & Didier Grandjean" published by the *Journal de l'Unige* (University of Geneva)
- 2012** *Newspaper interview* entitled "*Vous cherchez? Les bases cérébrales des émotions*" [Looking for the cerebral bases of the emotions], published by *La Tribune de Genève*, March 3rd, 2012. <http://journal.tdg.ch/bases-cerebrales-emotions-2012-02-27>
- 2012** *Television programme*. Info TSR - TSR Découverte entitled "*Pourquoi rit-on?*" [Why do we laugh?] aired on Télévision Suisse Romande, February 20th, 2012. <http://www.rts.ch/video/info/journal-12h45/3797714-tsr-decouverte-pourquoi-rit-on.html>
- 2011** *Television programme*. Special edition of 36.9° entitled "*Parkinson: Lenteurs et tremblements*" [Parkinson's: Slowness and shaking], aired on Télévision Suisse Romande (TSR1), March 30th, 2011. <http://www.tsr.ch/emissions/36-9/3049550-parkinson-lenteurs-et-tremblements.html>
- 2010** *Press release* entitled "*Parkinson's disease makes it harder to figure out how other people feel*" published by the **American Psychological Association (APA)**, March 3rd, 2010.
- 2010** *Newspaper article* entitled "*Parkinson's disease makes it harder to figure out how other people feel*" published by **The New York Times**, March 3rd, 2010.
- 2010** *Newspaper article* entitled "*Parkinson's patients unable to recognize emotions*" published by **The Times of India**, March 4th, 2010.
- 2010** *Online articles* regarding the paper "Péron, J., Biseul, I., Leray, E., Vicente, S., Le Jeune, F., Drapier, S., Drapier, D., Sauleau, P., Haegelen, C., & Vérin, M. (2010). Subthalamic nucleus stimulation affects fear and sadness recognition in Parkinson's disease. *Neuropsychology*, 24(1), 1-8", published by **Science Daily.com; Medical News Today.com; Elements4health.com; Lab Spaces.net; E-Psychology.us; Expert-reviews.com; NewsRx.com; The Mental Health Social Worker.org**

- 2010** *Communication article* entitled "*Understanding the link between the brain and electrodes in the perception of emotions - Le cerveau, l'électrode et la perception des émotions*", published by **ECHO**, the AXA research fund magazine, November 10th, 2010, p. 14-17.
- 2010** *Newspaper article* entitled "*Le cerveau écoute les émotions négatives*" [Our brain listens to negative emotions], published by **Science & Vie**, May 2010, page 17.
- 2010** *Communication article* entitled "*Un cerveau à l'écoute des émotions - Une équipe franco-genevoise lève une barrière dans le domaine de la stimulation cérébrale profonde des patients atteints de la maladie de Parkinson*" [A brain that listens to emotions – A Franco-Genevan team removes a barrier in the deep brain stimulation of patients with Parkinson's disease], published by the **Journal de l'Unige** (University of Geneva), March 2010, no. 31, page 14.
- 2010** *Lay audience lecture*. Invited lecture at the **Night of Science** (July 10-11, 2010), Geneva, Switzerland. Lecture entitled "*Le cerveau stimulé. Que peut nous apprendre la stimulation cérébrale profonde sur les émotions humaines?*" [The stimulated brain. What can deep brain stimulation tell us about human emotions?].
- 2003** *DVD*. Participation in the development of a DVD, in partnership with **Lundbeck**, on a neuropsychological tool for assessing patients in the advanced stages of Alzheimer's disease and associated disorders (Severe Impairment Battery, SIB) aimed at geriatricians and neurologists (2003).

Major achievements

Over the past few years, I have developed a new line of research on the functional role of the basal ganglia in human cognition and emotion. I have used deep brain stimulation in neuropsychiatric populations (e.g., Parkinson's disease, obsessive-compulsive disorder) coupled with behavioural measures, intracranial recordings and metabolic functional imaging, to study the functional roles of the targeted structures in non-motor functions (eg., Le Jeune, Péron et al., 2008, *Brain*).

In 2013, on the basis of this corpus of findings, together with my colleagues, I put forward an integrative model of the functional specialization and integration of the basal ganglia in non motor functions (Péron et al., 2013, *Neuroscience & Biobehavioral Reviews*). The basal ganglia would subtend the progressive automatization between voluntary effort, sensory input, and the creation and operation of a sequence of motor programmes, thoughts or emotional repertoires. The physiological basis for this mechanism may lie in the tendency of distributed, but related, network to synchronise and coherently bind neuronal populations to give the one gestalt in the motor, cognitive and/or emotional domains.

Since, I am testing this model.

The results collected over the past years, with a view to testing this model, are all convergent and congruent with the initial theoretical propositions that have both theoretical and clinical implications. In turn, these results raise many fascinating questions, thus opening up new avenues of research.

Examples of clinical implications of my research:

- Development of clinical trials targeting the ventral/limbic part of the subthalamic nucleus in order to stabilize the symptomatology of severe and resistant obsessive-compulsive disorder (eg., Mallet et al., *N Engl J Med*, 2008).
- Development of clinical trials targeting the dorsal part of the subthalamic nucleus with directional electrodes in people living with Parkinson's disease (eg., Schüpbach et al., *Mov Disord*. 2017).
- Help to raise awareness among health professionals involved in the care of neurological and psychiatric patients about the impact of basal ganglia and cerebellar dysfunctions on cognition and affective abilities.
- Improvement of neurorehabilitation in people living with neurological or psychiatric disorders (eg., basic sensory processes revalidation may directly improve high-level cognitive evaluative judgements in cerebellar stroke patients).