



SWISS CENTER FOR AFFECTIVE SCIENCES

JANUARY 2023 – DECEMBER 2023



SWISS CENTER FOR AFFECTIVE SCIENCES – ANNUAL ACTIVITY REPORT – 2023

Contents

1. Research	3
1.1. Research Groups	3
1.2. Defended doctoral thesis	10
1.3. Doctoral thesis in progress	10
1.4. Doctoral students, Members of the Swiss Doctoral SCHOOL in Affective Sciences, supervised by professors from other institutions	13
2. Financial Ressources	14
2.1. DIP Budget	14
2.2. Grants 2023	14
3. Awards, Grants, Nomination	15
4. Education and Training	15
4.1. Lecture and Seminars	15
4.2. Workshops	16
4.3. Graduate Seminars	16
4.4. Alumni non-Academic Career Testimonies	16
4.5. Symposia	16
4.6. Other	16
4.7. Co-funded events	16
5. Knowledge Transfer Activities	17
5.1. Partnerships	17
5.2. Outreach	18
6. Publication	20
6.1. Scientific articles	20
6.2. Books	28

1. RESEARCH

1.1. RESEARCH GROUPS

CONSUMER DECISION & SUSTAINABLE BEHAVIOR LAB (CDSB)

Professor Tobias Brosch

Developing a more sustainable lifestyle is one of the most pressing challenges for our planet and its inhabitants. Combining approaches from psychology, affective sciences, behavioral economics, and neuroscience, our research group aims to contribute to this challenge by trying to understand the mechanisms that drive decisions and behaviors related to sustainability.

During this period, the following research programs have been pursued:

- The role of emotion in sustainable action
- The role of ideology in climate change perception
- The impact of multiple values on sustainable action
- The role of information processing in sustainability-related judgments
- The potential of nudging strategies to promote sustainable decisions.

<https://www.unige.ch/cisa/research/research-groups/cisa-groups/consumer-decision-sustainable-behavior-lab-unige/>

EUDAIMONIC EMOTIONS AND THE (META)PHILOSOPHY OF WELL-BEING

Professor Florian Cova

Empeiria is a research group dedicated to the development of empirical and experimental approaches to traditional philosophical problems. As such, most of its activities fall into the domain of experimental philosophy, a field at the intersection of philosophy and cognitive sciences. Research topics include the meaning of life, free will, philosophy of art and moral philosophy.

During this period, the following research programs have been pursued:

- The different families of positive emotions.
- The psychological underpinnings of feelings of “depth” and “profoundity”
- The role of positive emotions in intuitions about the meaning of life
- Laypeople’s conceptions about the meaning of life
- The role of positive emotions in philanthropic behaviour
- Folk intuitions about free will and moral responsibility
- The nature of “critical thinking” and its potential downsides
- Attitudes and irrational beliefs in the context of the COVID-19 pandemic

<https://www.unige.ch/cisa/research/research-groups/cisa-groups/eudaimonic-emotions-and-metaphilosophy-well-being/>

THUMOS

Professor Julien Deonna and Professor Fabrice Teroni

Thumos' research activities are in the philosophy of emotions and values, with a special interest in the relations between emotions and values.

During this period, the following research programs have been pursued:

- Feel Bad, Live Well! The Value of Negative Emotions for Well-being. Examination of the role of negative emotions in well-being
- Emotion and Mental Imagery. Examination of the interactions between them.

<https://www.unige.ch/lettres/philo/recherche/thumos/history>

SENSORIMOTOR, AFFECTIVE AND SOCIAL DEVELOPMENT PSYCHOLOGY (SMAS)

Professor Edouard Gentaz

The main objective of the Laboratory for Sensorimotor, Affective and Social Development is to better understand the development of sensorimotor, affective and social competences in typical and atypical people, from birth through to the end of adolescence. This research is centred not only on theory, but also practical outcomes, such as booklets for parents, educational methods, and working with visually impaired people.

During this period, the following research programs have been pursued:

- Social-emotional development
- Early development of émotions
- Training

<https://www.unige.ch/cisa/research/research-groups/cisa-groups/sensorimotor-affective-and-social-development-psychology-unige/>

NEUROSCIENCE OF EMOTIONS AND AFFECTIVE DYNAMICS (NEAD)

Professor Didier Grandjean

The researchers of the NEAD group investigate psychological and brain processes related to emotional processes, especially in the auditory domain. We use functional Magnetic Resonance Imaging (fMRI), electroencephalography, and peripheral measures such as electromyography and skin conductance in our studies.

During this period, the following research programs have been pursued:

- Psychological and brain mechanisms of emotional prosody perception and integration with semantic information
- Psychological, peripheral, and brain mechanisms of emotional prosody production
- Comparative approach of emotional vocalizations in human and non-human primates
- Positive impacts of maternal and paternal vocalizations on newborns
- Music and emotion
- Spatial navigation and emotion

<https://www.unige.ch/fapse/neuroemo/>

ECOLOGY COGNITION COMMUNICATION EMOTION (EccePAN LAB)

Thibaud Gruber

The Ecology Cognition Communication Emotion Lab (eccePAN Lab) investigates the evolutionary origins of human cultures. We study how our cognition evolved to allow us to display unrivalled cultures in the animal realm. We focus especially on social learning as well as communication processes. We conduct our work in the wild in Uganda with chimpanzees, and in human populations cross-culturally.

During this period, the following research programs have been pursued:

- Interaction between cognition and ecology in wild chimpanzee tool use
- Impact of ecology and environmental change in non-human behavior
- Socio-emotional aspects of learning and communication in human children
- Evolutionary origins of human language

<https://www.unige.ch/fapse/eccePAN/en>

CREATIVITY, IMAGINATION, AND TRADITION

Professor Julia Langkau

The Geneva Research Group Creativity and Imagination focuses on topics concerning creativity, the creative subject and AI creativity. Emphasis lies on distinguishing the defining conditions for creative processes from the defining conditions for creative outputs, as well as on differences between the creative process in humans and in AI.

During this period, the following research programs have been pursued:

- Creativity and Imagination in Literary Writing
- Culinary Creativity and Tradition
- Narratives and the creative person

<https://www.unige.ch/cisa/research/research-groups/cisa-groups/creativity-imagination-and-tradition/>

COGNITIVE AFFECTIVE AND NEURAL ECONOMICS LAB (CANE-LAB)

Professor Mael Lebreton

The CANE group was founded on September 1st 2022, thanks to the ERC-StG-INFORL grant. The group investigates behavioral and neuro-computational aspect of human decision-making, pertaining to various situations (simple choices and judgments, reinforcement-learning, strategic and social interactions). We are particularly interested in how individuals form values, beliefs and metacognitive judgments (e.g. confidence) and how those can be distorted by affective contexts and computational limitations. We use a wide range of technics, borrowed from affective neurosciences, behavioral economics and computational sciences.

During this period, the following research programs have been pursued:

- Information integration during reinforcement-learning
- Links between reinforcement-learning and confidence biases
- Effects of monetary incentives on probabilistic judgments (beliefs, confidence judgments)==use of decision-making science in clinical and applied contexts

<https://sites.google.com/site/maellebreton/home>

CLINICAL AND EXPERIMENTAL NEUROPSYCHOLOGY LABORATORY (CENLAB)

Professor Julie Péron

The objective of the Clinical and Experimental Neuropsychology laboratory is to improve the quality of life of people living with neuropsychological syndromes. To do so, we pursue four main lines of research: (i) to increase knowledge of the cerebral bases of cognition, emotion and behavior (ii) to improve the evaluation and rehabilitation of these processes and provide innovative and useful guidelines for practitioners (iii) to nourish and reinforce the science-society dialogue, and finally (iv) to train skilled professionals in the field.

During this period, the following research programs have been pursued:

- **Project 1: Cerebellar contribution to human emotion.** The CEREBEMO project aims at better understanding the cerebellum's functional specialization and integration in human affective processes but also to investigate, more broadly, the basal ganglia-cerebellar network during sensorimotor, cognitive and emotional processes underpinning the habit formation (Swiss National Foundation 2023 to 2026 – Grant N°: 105314_215015 to Prof. Péron). In 2023, our group published three original research article in this research line. Results were presented at national conferences.
- **Project 2: Longitudinal evolution of cognitive functions following SARS-CoV-2 infection: factors of chronicization.** Our research group has previously investigated the impact of the COVID-19 infection on neuropsychological abilities, confirming the presence of cognitive disturbances in the short-term following SARS-CoV-2 infection. While several hypotheses have been put forward to explain the persistence of these neurocognitive symptoms, many questions remain unanswered, notably the evolution of these impairments in the long-term. The TREJECTORY project (Swiss National Foundation 2023 to 2027 – Grant N°: 220041 to Prof. Péron) aims to track the longitudinal evolution of patients 3 and 5 years after the acute phase of COVID-19. In 2023, our team published four scientific articles on this topic, and results were disseminated at various national and international conferences.
- **Project 3: Personality as a Predictor of Disability in Multiple Sclerosis.** The COGNISEP project aims at better understanding the role of personality in multiple sclerosis by highlighting the implication of precise personality traits and understanding their impact and interaction with cognitive and affective status (Swiss MS society - Grant N°: 2023-19). In 2023, our research group published an original research article on the topic.
- **Project 4: Non-motor symptoms in relation to biomarkers in early asymmetric Parkinson's disease.** The aim of the PARKLAT project is to better understand how motor symptom asymmetry, a key feature of patients suffering from Parkinson's disease, impacts the neuropsychological and physiological profiles of patients in the early stages of the disease and following subthalamic nucleus deep brain stimulation. In 2023, our group published two scientific papers on this topic, and disseminated the results in international conferences.

<https://www.unige.ch/fapse/cenlab/>

NEUROSCIENCE IN FINANCE AND ECONOMICS (NiFE LABORATORY)

Professor Kerstin Preuschoff

Our research in Neuroeconomics and Neurofinance focuses on decision making under uncertainty. This highly interdisciplinary work covers theoretical and experimental aspects of decision making and risk taking and unites neuroscience, financial economics, computational neuroscience and psychology. We primarily employ behavioral studies, computational modelling and functional MRI to study how humans make (financial) decisions in an uncertain world.

<https://www.unige.ch/gsem/en/research/faculty/all/kerstin-preuschoff/>

EMOTION AND MEMORY LAB

Professor Ulrike Rimmle

The Emotion and Memory Laboratory examines how emotions, stress and their regulation influence human memory across the life span.

During this period, the following research programs have been pursued:

Currently, the laboratory develops three major research programs. Using a multi-method approach (behavioral methods, physiology, pharmacology, neuro-imaging and virtual reality), these research programs investigate empirically

- The behavioural and neural mechanisms of emotion and stress' modulation on learning and memory
- The role of emotion and stress on the construction of memories in children, adolescents, young, middle-aged and older adults
- The influence of emotion regulation strategies on making and changing memories.
- In addition to the research aims above we examine how emotional memories may be altered using different interventions.

<https://www.unige.ch/fapse/emotion-and-memory/eng>

LABORATORY FOR THE STUDY OF EMOTION ELICITATION AND EXPRESSION (E3 LAB)

Professor David Sander

Research in the Laboratory for the study of Emotion Elicitation and Expression investigates the cognitive mechanisms involved in the appraisal of relevant stimuli, and how these processes elicit emotions, and modulate perception, attention, learning, memory, and decision-making.

During this period, the following research programs have been pursued:

- The nature and function of relevance detection in emotion elicitation
- Appraisal-driven facial expression of emotion
- Mechanisms underlying emotional attention
- Mechanisms underlying emotional learning and memory
- Emotional processing of olfactory stimuli
- Bidirectional links between emotions and food intake

<https://www.unige.ch/cisa/research/research-groups/cisa-groups/e3-lab-unige/>

SLEEP AND COGNITION NEUROIMAGING LABORATORY

Professor Sophie Schwartz

The Sleep and Cognition Lab investigates how experience shapes our minds. Specifically, using behavioral and brain measures, we study how emotions and recent memories are integrated into complex representations, during wakefulness as well as during sleep and dreaming.

During this period, the following research programs have been pursued:

- Effects of cognitive load and sleep deprivation on pain processing
- Neural coding of memories in space and time
- Impact of screen use and morning school hours on sleep, cognition, and emotion in adolescents
- Effects of physical exercise on memory and neural plasticity
- Processing of odor valence during sleep and influence of odors on sleep.

<https://neurocenter-unige.ch/research-groups/sophie-schwartz/>

LABORATORY FOR BEHAVIORAL NEUROLOGY AND IMAGING OF COGNITION (LABNIC)

Professor Patrik Vuilleumier

We investigate the functional mechanisms and brain networks implicated in the generation and regulation of emotions, in healthy people as well as in neurological or psychiatric diseases. Using neuroimaging methods (MRI and EEG), we seek to understand the role of different brain regions (e.g. amygdala), how they dynamically influence each other, how they are regulated by other regions (e.g. prefrontal cortex), and how these circuits influence cognition, behavior, and mood.

During this period, the following research programs have been pursued:

- Identify the cerebral organization of emotional components and their functional interactions during emotional episodes
- Examine the temporal dynamics of emotional responses and emotion regulation with EEG
- Characterize the impact of transient emotions on brain activity and connectivity during resting state and their link to emotion regulation abilities
- Changes in these functional networks in relation to psychopathology and aging

<https://neurocenter-unige.ch/research-groups/patrik-vuilleumier/>

1.2. DEFENDED DOCTORAL THESIS

- Stéphanie Mertens successfully defended her PhD thesis “The Cognitive and Behavioral Effects of Decision Signposts” on February 13th, 2023 under the supervision of Prof. Tobias Brosch (University of Geneva)
- Antoine Rebourg successfully defended his PhD thesis “On strength of Will” on April 5th, 2023 under the supervision of Prof. Julien Deonna (University of Geneva)
- Yulia Panteleeva successfully defended her PhD thesis “Music and emotional states: The role of episodic memory” on May 12th, 2023 under the supervision of Prof. Didier Grandjean (University of Geneva) & Prof Grazia Ceschi (University of Geneva)
- Nahuel Antonio Salem Garcia successfully defended his PhD thesis “Motivational biases in human confidence judgements during decision-making” on May 17th, 2023 under the supervision of Prof. Maël Lebreton (University of Geneva)
- Mattia Fritz successfully defended his PhD thesis “Implementation and Assessment of a Multipurpose Appraisal-Driven Emotion Awareness Tool Based on Self-Report” on June 28th, 2023 under the supervision of Prof. Didier Grandjean (University of Geneva) & Prof Grazia Ceschi (University of Geneva)
- Magali Mari successfully defended her PhD thesis “From learning about social categories to holding stereotypes” on July 20th, 2023 under the supervision of prof. Fabrice Clément (University of Neuchâtel)
- Béatrice Conte successfully defended her PhD thesis “The dynamics of values and emotions in the environmental domain” on September 15th, 2023 under the supervision of Prof. Tobias Brosch (University of Geneva)
- Johanna Rebecca Falk successfully defended her PhD thesis “Affective Influences on Effort and the Crucial Role of Personal Choice” on November 27th, 2023 under the supervision of Prof. Tobias Brosch (University of Geneva)

1.3. DOCTORAL THESIS IN PROGRESS

Doctoral students supervised by UNIGE professors at the Swiss Center for Affective Sciences

- Abatista Angela, PhD Student, *Emotions eudémoniques et philosophie du bien-être*, supervised by Prof. Florian Cova (University of Geneva)
- Baehni Agnès, PhD Student, *Relating Morally to Oneself*, supervised by Prof. Julien Deonna (University of Geneva) & Fabrice Teroni (University of Geneva)
- Bouzidi Yann, PhD Student, *Volition, affect and effort*, supervised by Prof. Guido H.E. Gendolla (University of Geneva)
- Cappelli Mathilde, PhD Student, *On Sexual Desire*, supervised by Prof. Fabrice Teroni (University of Geneva)
- Conte Beatrice, PhD Student, *Cognitive, affective and behavioral dynamics of sustainable decision-making* (defended thesis in September 2023) supervised by Prof. Tobias Brosch (University of Geneva)
- Elbassiouny Mai, PhD Student, *Modulation of Emotional Memory*, Supervised by U. Rimmeli

- Erdemli Asli, PhD Student, *The neural representation of epistemic curiosity*, supervised by Prof. David Sander (University of Geneva)
- Falk Johanna, PhD Student, Affective Influences on Goal Pursuit and the Moderating Role of Deliberation (defended thesis in November 2023) supervised by Prof. Guido Gendolla (University of Geneva)
- Fritz Mattia, PhD Student, *Emotions in Computer-Supported Collaborative Learning: the influence of Emotional Awareness Tools* (defended thesis in June 2023) supervised by Prof. Mireille Bétrancourt (University of Geneva)
- Fuhrer Joffrey, PhD Student, *Life is pretty meaningful. An experimental and theoretical approach to study meaning in life: intuitions, emotions, measures, and concept*, supervised by Prof. Florian Cova (University of Geneva)
- Giannuzzo Anaïs, PhD Student, *Narratives and the Creative Person*, supervised by Prof. Julia Langkau (University of Geneva)
- Giarrizzo Alessio, PhD Student, *Apprentissage et compétences au travail, en formation et dans les organisations*, supervised by Prof. Nathalie Delobbe (University of Geneva)
- Gradi Naïma, PhD Student, *Effectiveness of a 6-week in-home gamified attentional control training versus casual video game training on typically developing adolescents with high anxiety*, supervised by Prof. Daphne Bavelier (University of Geneva) & Prof. Swann Pichon (HEdS Geneva)
- Humbert-Droz Steve, PhD Student, *Modes of imagining – a taxonomy of imagination in the light of mode/content distinction* (defended thesis in February 2023) supervised by Prof. Fabrice Teroni (University of Geneva)
- Keller Roberto, PhD Student, *Corrective Concepts*, supervised by Prof. Fabrice Teroni (University of Geneva) and Prof. Conor McHugh (University of Southampton)
- Kainz Morris, PhD Student, *Cognitive and Affective predictors of renewable energy policy support*, supervised by Prof. Tobias Brosch
- Mammeri Kevin, PhD Student, *Imagery rescripting and targeted memory reactivation in insomnia disorder*, supervised by Prof. Lampros Perogamvros
- Mertens Stéphanie, PhD Student, *The Behavioral and Cognitive Effects of Attribute Translations on Consumer Decision Making in the Energy Domain* (defended thesis in February 2023) supervised by Prof. Tobias Brosch (University of Geneva)
- Monnor Teerawat, PhD Student, *Investigation of interpersonal-affective motivation for prosocial behavior*, supervised by Prof. Giuseppe Ugazio and Kerstin Preuschhoff (University of Geneva)
- Murray Lina, PhD Student, *Impact de l'émotion sur la mémoire spatiale: investigations comportementales et neuropsychologiques*, supervised by Prof. Didier Grandjean (University of Geneva)
- Nonni Martina, PhD Student, *Emotion components and brain networks in VR and fMRI*, supervised by Prof. Patrik Vuilleumier (University of Geneva)
- Panteleeva Yulia, PhD Student, *Music and emotional states: The role of episodic memories* (defended thesis in May 2023) supervised by Prof. Didier Grandjean (University of Geneva) and Dr. Grazia Ceschi (University of Geneva)

- Rambosson Isabelle, PhD Student, *How does early neural entrainment induce by rhythmic emotional vocal and motor stimulation impact anticipatory processes in preterm and full-term infants?*, supervised by Prof. Didier Grandjean and Dr. Manuela Filippa (University of Geneva)
- Rebourg Antoine, PhD Student, *On Strength of Will* (defended thesis in April 2023) supervised by Prof. Julien Deonna (University of Geneva)
- Richard Jeanne, PhD Student, *Food valuation, inhibition and emotion regulation in individuals with healthy weight, overweight and obesity: How do these affective and cognitive processes interact?*, supervised by Prof. Géraldine Coppin (Swiss Distance University Institute) and Prof. David Sander (University of Geneva)
- Salem Nahuel, PhD Student, *Computational and neural mechanisms of decision-making in humans: valence biases in choice and confidence* (defended thesis in May 2023) supervised by Dr. Maël Lebreton (University of Geneva)
- Schöpfer Céline, PhD Student, *The different philosophical and psychological conceptions of “critical thinking”* (University of Geneva), supervised by Prof. Florian Cova (University of Geneva).
- Selosse Garance, PhD Student, *Influence of peripheral information on behavioural and spatio-temporal neural mechanisms of vocal emotion production and perception*, supervised by Prof. Didier Grandjean (University of Geneva)
- Sooter Nina, PhD Student, *Stress, Honesty and Decision-Making: Investigating if and how stress impacts compliance with moral codes of conduct in favor of selfish interests*, supervised by Prof. Didier Grandjean (University of Geneva)
- Spampatti Tobia, PhD Student, *How information processing and motivated information search shape beliefs, emotions, and decisions concerning renewable energies in Switzerland*, supervised by Prof. Tobias Brosch (University of Geneva) and Dr. Ulf Hahnel (University of Geneva)
- Tan Mi Xue , PhD Student, *Dynamic brain networks mediating componential representations of emotions*, supervised by Prof. Patrik Vuilleumier (University of Geneva)
- Tarditi Joz-Roland Céline, PhD Student, *Mécanismes neuro-cognitifs de l'activation des valeurs*, supervised by Prof. Tobias Brosch (University of Geneva)
- Wang Chen, PhD Student, *Dyadic Impression Recognition From Multimodal Bodily Responses*, supervised by Dr. Guillaume Chanel (University of Geneva)
- Wittmann Adrien, PhD Student, *Investigating the cerebral integration of affective prosodic and semantic information in verbal*, supervised by Prof. Didier Grandjean (University of Geneva)
- Wuensch Lavinia, PhD Student, *Individual differences in reward-seeking behaviors*, supervised by Prof. David Sander (University of Geneva)
- Zaharia Alexandra, PhD Student, *Board games focused on emotional competences: promoting positive emotions and emotion regulation skills in adolescents*, supervised by Prof. Andrea Samson (University of Fribourg) and Prof. David Sander (University of Geneva)

1.4. DOCTORAL STUDENTS, MEMBERS OF THE SWISS DOCTORAL SCHOOL IN AFFECTIVE SCIENCES, SUPERVISED BY PROFESSORS FROM OTHER INSTITUTIONS

- Gao Jie, PhD Student, *Developing emotional capability*, supervised by Roland Tormey (EPFL) & Nadia Mazouz (ETH)
- Gehringer Carol, PhD Student, *Argumentation and multimodal communication between children and educator in apprenticeship*, supervised by Prof. Fabrice Clément (University of Neuchâtel)
- Kostrz Marie, PhD Student, *The collective emotions generated by the population displacement policies enforced in Syria since 1963*, supervised by Prof. Anna Leander (IHEID)
- Mari Magali, PhD Student, *The nature and acquisition of social schemata* (defended thesis in July 2023) supervised by Prof. Fabrice Clément (University of Neuchatel)
- Nicolet-dit-Félix Maroussia, PhD Student, *Exploration of the mechanisms mediating the relationship between emotional intelligence and subjective well-being*, supervised by Prof. Fabrice Clément (University of Neuchâtel) and Prof. Marina Fiori (HEFP)
- Petschen Adrian, PhD Student, *A study of the structural causes of human curiosity*, supervised by Prof. Fabrice Clément (University of Neuchatel)
- Schmid Désirée, PhD Student, *A refinement of the value approach in the environmental domain (REVALUE)*, supervised by Dr. Nadja Contzen (EAWAG) and Prof. Tobias Brosch (University of Geneva)
- Sommer Nils, PhD Student, *Emotional competences and their impact on wellbeing and social interactions*, supervised by Dr. Katja Schlegel (University of Bern)
- Stallmann Lina, PhD Student, *Social Emotion Regulation in People with Autism Spectrum Disorder and the Use of Virtual Reality*, supervised by Prof. Andrea Samson (University of Fribourg)
- Treichel Noémie, PhD Student, *The appreciation and comprehension of humor in neurodevelopmental disorders - Williams syndrome, autism spectrum disorder and intellectual disabilities*, supervised by Prof. Andrea Samson (University of Fribourg)

2. FINANCIAL RESSOURCES

2.1. DIP BUDGET

STAFF	2023
Academic	573'665
Scientific and Technical	1'122'245
Administrative	282'265
TOTAL STAFF	1'978'175
<i>Employer's social contributions</i>	446'432
TOTAL STAFF CONTRIBUTIONS INCLUDED	2'429'732
<i>Operating cost – Others</i>	156'885
<i>Operating cost – Investment</i>	29'819
TOTAL	2'616'436

2.2. GRANTS 2023

NEW EXTERNAL FUNDING GRANTED BY THE PROFESSORS ¹	2023
Swiss Government funded Projects	1'182'127
Other Projects	1'553'989
TOTAL EXTERNAL FUNDING	2'736'116

¹Funds granted during the year

TOTAL ANNUAL AMOUNT RECEIVED FOR NEW AND ONGOING PROJECTS ²	2023
Swiss Government funded Projects	1'425'727
Other Projects	1'007'645
TOTAL EXTERNAL FUNDING	2'433'372

²Year of installment payment for new and ongoing projects

3. AWARDS, GRANTS, NOMINATION

- **Tobias Brosch** has been nominated representative of the Federation of Swiss Psychologists (FSP), the European Federation of Psychologists' Associations (EFPA), and the American Psychological Association (APA) to the United Nations (UN), Leader of the climate change workstream.
- **Thibaud Gruber** obtained a four-year (2023-2027) Swiss National Science Foundation Project grant entitled "Transmitting Knowledge: the Role of Emotional Feedback in the Acquisition of Culture" and a five-year (2023-2028) European Research Council Consolidator Grant.
- **Patrik Vuilleumier's** research was ranked among the 10 most influential in neuroscience in Switzerland by the platform Research.com (d-index 102, <https://research.com/scientists-rankings/neuroscience/ch>).
- **Prof Klaus Scherer** is named best researcher in the field of psychology according to the 3rd edition of Research.com ranking <https://research.com/scientists-rankings/psychology/ch>

4. EDUCATION AND TRAINING

4.1. LECTURE AND SEMINARS

- Claus Lamm. 31.01.23. "Why do we care? Linking the social neuroscience of empathy and prosocial behaviors to pro-environmental behavior"
- Delphine Oudiette. 28.02.23. "Sleep on it! Does sleep foster creative problem solving?"
- Pilleriin Sikka. 07.03.23. "Dream emotions: a window into waking mental health and well-being"
- Julia Langkau. 25.04.2023. "Can reading fiction teach us empathic skills?"
- Deborah Talmi. 23.05.2023. "When we want to remember: A mechanistic model of emotional and motivated memory recall."
- Leonie Koban. 30.05.2023. "Social influences on affect and decision-making: from behavior to brain signatures."
- Assaf Kron. 20.06.2023. "Studies on the role of relevance appraisal in affect elicitation."
- Bridget Waller. 26.09.2023. "Individual differences in facial expressivity: Social function, facial anatomy and evolutionary origins."
- Ana Pinheiro. 17.10.2023. "Vocal emotion perception at millisecond speed"
- Toby Wise. 07.11.2023. "Algorithms and anxiety"
- Kim Doell. 28.11.2023. "Climate interventions must be tailored to actions and audiences: A 60-country global megastudy"
- Pia Campeggiani. 19.12.2023. "Mixed feelings: conflicting valence from Socrates to Russell"

4.2. WORKSHOPS

- “Drift Diffusion Modeling”. With Sebastian Olschewski (Basel University). 04.04.2023.
- “The Open-Science Revolution: Why and how to”. With Francesca Starita and Sara Garofalo (University of Bologna). 30.06.2023.
- “Personal webpages: An introduction”. With Guillaume Jacquemoud (University of Geneva). 14.11.2023.
- “Putting values to work”. With Oded Bein (Stanford University). 05.12.2023.

4.3. GRADUATE SEMINARS

- Introduction to the philosophy of emotion. With Julien Deonna & Fabrice Teroni. 24.01.2023.
- Introduction to the non-verbal expression of emotion: Face and body. With Marcello Mortillaro. 14.03.2023.
- Introduction to the non-verbal expression of emotion: Voice. With Didier Grandjean. 16.05.2023.
- Emotion psychophysiology. With Sylvain Delplanque. 31.10.2023.

4.4. ALUMNI NON-ACADEMIC CAREER TESTIMONIES

- Mihai Dricu. Private sector researcher. 31.01. 2023.
- Christelle Chrea. Private sector researcher and team manager. 01.03. 23.
- Aline Pichon. Private sector researcher. 31.10.2023.

4.5. SYMPOSIA

- *Sleep and Emotion*. 11-12.12.2023. Conference at the Swiss Institute in Rome, Italy.

4.6. OTHER

- CISA welcome day. 11.09.2023.
- Doctoral Students Day. 26.09.2023.
- CISA advanced researchers meeting. 11.05.2023. CISA, Campus Biotech.

4.7. CO-FUNDED EVENTS

- Thumos lecture series. Philosophy lectures in the affective sciences. In collaboration with Thumos research group. Thursdays, 16h15-17h45. Uni Bastions & online.
- Talks and round table: “*Emotions - A Missing Link Towards Long-Term Sustainability?*” 29.11.2023. Palais des Nations. Organized in collaboration with SDG Lab, the American Psychological Association, the European Federation of Psychologists’ Associations, and the Federation of Swiss Psychologists

5. KNOWLEDGE TRANSFER ACTIVITIES

5.1. PARTNERSHIPS

CISA continues to prioritize collaboration with external partners, driving forward impactful applied research on diverse topics.

NEUROPSYCHOLOGICAL IMPACT OF COVID-19

Prof. Péron collaborates with colleagues from Geneva University Hospital, Lausanne University Hospital, and EPFL on the COVID-COG and TRAJECTORY projects. These initiatives investigate the short-term and long-term effects of COVID-19 on neuropsychological abilities, examining outcomes at three and five years post-infection. Additionally, Prof. Péron leads a project with Geneva University Hospitals exploring the influence of personality traits on Multiple Sclerosis.

ADVANCING SUSTAINABLE ENERGY THROUGH PSYCHOLOGICAL SCIENCE

Prof. Brosch spearheads multiple projects aimed at leveraging psychological science to facilitate the transition to sustainable energy sources. Notable collaborations include:

- "Evidence-based Development of Sustainability Communications to Maximize Behavioral Impact" with NOUS productions.
- "eNet – An Adaptable Platform for Advanced Local Energy Markets" with Virtual Global Trading.
- "Public Attitudes Toward Geothermal Energy Projects in Geneva" with Services Industriels de Genève.

THE INFLUENCE OF SOUND ON TIME PERCEPTION

Prof. Grandjean directed a collaborative project with Vacheron-Constantin, investigating how sound influences the representation and perception of time.

EMOTIONAL COMPETENCIES AND ARTISTIC INTERVENTIONS

Dr. Mortillaro oversees various applied projects at CISA. Since 2022, he has been leading a collaboration with École Hôtelière Lausanne to develop a new performance-based test for assessing emotional competencies in hospitality. Another project, in partnership with the Anouk Foundation, explores the impact of artistic interventions in clinical settings on both patients and staff.

5.2. OUTREACH

ZOOM, Laval's Cultural Center, hosted the exhibition "De l'Amour" from March 11 to August 6, 2023 and the **Musée des Confluences in Lyon**, from October 20, 2022 to August 25, 2024. Designed and produced by Le Palais de la Découverte, Paris with the participation of the Swiss Center for Affective Sciences, the exhibition explores the feeling of love.

The **International Red Cross and Red Crescent Museum** in collaboration with the Geneva Centre for Humanitarian Studies and the Swiss Center for Affective Sciences (CISA), University of Geneva organized throughout 2022-2023, a series of five thematic conversations on "How to represent Mental Health". They bring together specialized discussants from different fields of expertise. Dr Marzia Varutti of the Swiss Center of Affective Sciences is involved in the organization of this conference cycle.

Furthermore, still at the **International Red Cross and Red Crescent Museum**, the Swiss Center for Affective researchers led on June 4th, 2023 a workshop on *When emotions get caught up in the game*. They invited the public to play board games focused on emotional competencies and regrouped under the label of chEERS Games.

On May 22, 2023, Swiss Center for Affective Sciences's researchers Juliane Völker, Christine Cooper-Vince and Laura Riontino participated at the Geneva **Pint of Science event** "A Taste of Emotions: Why is my waiter rude! And why is my kid not eating".

Following her 2020 residency at the Swiss Center for Affective Sciences and NCCR Evolving Language, the Swiss artist **Julie Semoroz** presented her creation *TWELVE THOUSAND TWENTY* several time from 2021 to 2023 in various cultural institutions. The project involves an art installation, workshops and performances which refers to the internal perception of sound and acts on the capacity to feel the internal physiological activity as indicators of emotions, of the body state.

- *DOUZE MILLE VINGT, Exhibition and workshop, Etopia, Zaragoza*, Spain, September 30, 2023

Julie Semoroz also produced new works in connection with her exchanges with CISA researchers, which were presented in the exhibition **In Between** from November 9 to 26, 2023 at the UNIGE Exhibition Hall. A rich program of concerts, lectures and workshops accompanied the exhibition.

- November 11, 2023: Human-Animal Interaction (HAI) (concert) & Foralgués (concert) and round table with Prof Didier Grandjean, Dr Emilie Genty et the scientific journalist Aurélie Coulon
- November 17-18, 2023: Performance Interspecies communication with Julie Semoroz, Fabio Bergamaschi, et Joseph Simon
- November 19, 2023: Workshop Body Resonant with Aude Barrio, Prof Didier Grandjean et Julie Semoroz
- November 24 & 25, 2023: Performance In Between avec Julie Semoroz

In collaboration with the Swiss Center for Affective Sciences, the American Psychological Association, the European Federation of Psychologists' Associations, and the Federation of Swiss Psychologists, the **SDG Lab hosted at Palais des Nations**, Geneva, on November 29, 2023 a public talk as part of its "So What's Next" series entitled "Emotions - A Missing Link Towards Long-

Term Sustainability?". The session unpacked the role of emotions and the broader field of affective sciences in advancing the SDGs and long-term sustainability.

Prof Didier Grandjean took part in a workshop entitled "**Performing the Archives?**" at **Montreux Jazz Festival** on July 11, 2023. The technical challenges related to the live interaction of musicians with music archives, the originality and emotional impact of these artistic "co-creations", and the issues related to the use of artificial intelligence will then be presented and discussed within the Living Archive Research Group including Gérard Assayag (Director of Research, IRCAM, France), Dr. Alain Dufaux (EPFL), Prof. Christophe Fellay and Dr. Alain Renaud (EDHEA, Valais), Prof. Didier Grandjean (CISA, UNIGE).

Dr Alain Dufaux (EPFL), Prof Didier Grandjean (CISA, UNIGE) and Christophe Fellay (EDHEA, Valais) were speakers at the 6th edition of the **ArtTech Forum** which will take place within the walls of the Villars Palace, on September 14 and 15, 2023.

The Sleep and Emotion lab organized on December 11-12, 2023 at **Rome Swiss Institute** a multidisciplinary investigation of human health and well-being. This conference on sleep and emotion brought together experts in this field from Switzerland and Italy to exchange ideas, discuss the latest advancements, and foster collaboration. The program also included an art science performance by artists Alexander Serechenko and Ekaterina Pryanichnikova, who were in residence at CISA Sleep Lab in 2021.

On December 17, 2023, philosopher François Jacquet gave a public lecture at **Geneva's Musée d'Ethnographie** on "Speciesism: what is it and why is it immoral?"

6. PUBLICATION

6.1. SCIENTIFIC ARTICLES

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