

# Claudie Gaillard, PhD

Section on Neurobiology of Fear and Anxiety (SNFA)

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## EDUCATION

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- 2013 - 2019      PhD in clinical psychology and affective neuroscience  
Unit of Clinical and Health Psychology, Department of Psychology, University of Fribourg, Switzerland
- ✧ Doctoral thesis : *Reward processing under influence: Effects of stress and cognitive load on reward processing and their clinical implications for the vulnerability to major depression.*
  - ✧ Principal Investigator and PhD supervisor: Prof. Dr. Chantal Martin Soelch
- 2014 - 2016      Diploma of Advanced Studies in Academic Education and Technology of Education  
Center of Academic Didactic, University of Fribourg, Switzerland
- 2017 - 2018      Legal Studies for non-legalist  
Faculty of Law, University of Fribourg, Switzerland
- 2011 - 2013      Master of Science in Clinical and Health Psychology  
Department of Psychology, University of Fribourg, Switzerland
- ✧ Master thesis : *Influence of cognitive factors in chronic pain : relationship between catastrophization, hypervigilance, and rumination in increased vulnerability to the chronicization of pain.* [original title: *Etude auprès de personnes souffrant de douleurs chroniques: facteurs cognitifs favorisant la chronicisation des douleurs. Le lien entre catastrophisation, hypervigilance attentionnelle et rumination dans l'émergence d'une vulnérabilité face au processus de chronicisation de la douleur*].
  - ✧ Principal Investigator: Prof. Dr. Chantal Martin Soelch
- 2011 - 2012      Erasmus Fellowship (academic semester abroad)  
Department of Psychology, University of Heidelberg, Germany

- 2008 – 2011 Bachelor of Science in Psychology  
Department of Psychology, University of Fribourg, Switzerland
- ✧ Bachelor thesis : *Working memory in bilinguals : is bilingualism an asset in attentional switching required during a working memory task ?* [original title: *La mémoire de travail chez les bilingues: Y a-t-il un avantage du bilinguisme dans la gestion du switching attentionnel au sein de la mémoire de travail ?* ].
  - ✧ Principal Investigator: Prof. Dr. Valérie Camos

## CLINICAL TRAINING

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- 2016 Clinical training in Emotion-Focused Therapy taught by Prof. Dr. Antonio Pascual Leone  
University Institute of Psychotherapy (IUP), Lausanne University Hospital (CHUV), University of Lausanne, Switzerland
- 2015 Clinical training in Mindfulness-based Cognitive Therapy (MBCT) taught by Prof. Dr. Zingel Segal  
Swiss association for cognitive psychotherapy, Geneva, Switzerland

## HONORS AND AWARDS

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- 2020 Fellows Award for Research Excellence 2021  
Section on Neurobiology of Fear and Anxiety (SNFA)  
National Institutes of Health, Bethesda, MD, USA

## FUNDING

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- 2019 - Present National Institutes of Health Intramural Research Training Award
- 2017 - 2018 Doc.Mobility Fellowship, Swiss National Science Foundation (SNSF)
- 2011 - 2012 Erasmus Fellowship, Rectors' Conference of the Swiss Universities (CRUS)

## MAJOR SCIENTIFIC ACHIEVEMENTS

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### PEER REVIEWED PUBLICATIONS

**Gaillard, C.**, Guillod, M., Ernst, M., Federspiel, A., Schoebi, D., Recabarren, R.E., Ouyang, X., Mueller-Pfeiffer, C., Horsch, A., Homan, P., Wiest, R., Hasler, G., & Martin-Soelch, C. (2020). Striatal reactivity to reward under threat-of-shock and working memory load in adults at increased familial risk for major depression: A preliminary study. *NeuroImage: Clinical*, 26, 102193. DOI: <https://doi.org/10.1016/j.nicl.2020.102193>

**Gaillard, C.**, Guillod, M., Ernst, M., Torrisi, S., Federspiel, A., Schoebi, D., Recabarren, R. E., Ouyang, X., Mueller-Pfeiffer, C., Horsch, A., Wiest, R., Hasler, G., & Martin-Soelch, C. (2019). Striatal responsiveness to reward under threat-of-shock and working memory load. *Brain and Behavior*, 9(10), e01397. DOI: <https://doi.org/10.1002/brb3.1397>

Ernst, M., Gowin, J., **Gaillard, C.**, Philips, R., & Grillon, C. (2019). Sketching the power of machine learning to decrypt a neural systems model of behavior. *Brain Sciences*, 9(67), 1-17. DOI: <https://doi.org/10.3390/brainsci9030067>

Recabarren, R. E., **Gaillard, C.**, Guillod, M., & Martin-Soelch, C. (2019). Short-term effects of a multidimensional stress prevention program on quality of life, well-being and psychological resources. A randomized control trial. *Frontiers in Psychiatry*, 10(88), 1-15. DOI: <https://doi.org/10.3389/fpsyt.2019.00088>

### SUBMITTED MANUSCRIPT

Martin-Soelch, C., Guillod, M., **Gaillard, C.**, Recabarren, R. E., Schoebi, D., Federspiel, A., Mueller-Pfeiffer, C., Merlo, M.C.G., Homan, P., Hasler, G., Horsch, A., & Gomez P. (Under review). Increased reward-related activation in the ventral striatum during stress condition associated with positive affect in the daily life of young adults with a family history of depression. *Frontiers in Psychiatry*.

### MANUSCRIPT IN PREPARATION

Wadji, D. L., **Gaillard, C.**, Magloire, K.W.G.J., Wicky, C., Naser, M. & Martin-Soelch, C. (In preparation). Cortisol awakening response in the context of intimate partner violence in Cameroon and the moderating impact of self-esteem.

## CONFERENCE TALK

**Gaillard, C.**, Guillod, M., Schoebi, D., Federspiel, A., Recabarren, R., Ouyang, X., Mueller-Pfeiffer, C., Horsch, A., Hasler, G., & Martin-Soelch, C. (2018). *Rôle du stress et de l'effort cognitif sur la sensibilité à la récompense*. Talk presented at the International multidisciplinary Symposium for Gambling addiction: Science, Independence, Transparency, Fribourg, Switzerland.  
DOI: <https://doi.org/10.13140/RG.2.2.24853.99042>

## CONFERENCE POSTERS

**Gaillard, C.**, Guillod, M., Ernst, M., Torrisi, S., Federspiel, A., Schoebi, D., Recabarren, E. R., Ouyang, X., Mueller-Pfeiffer, C., Horsch, A., Wiest, R., Hasler, G., & Martin-Soelch, C. (2019). *Nucleus accumbens activation to reward is negatively associated to maladaptive emotion regulation and depressive symptomatology*. Poster session presented at the International Society for Research on Emotion (ISRE) conference, Amsterdam, The Netherlands.  
DOI: <https://doi.org/10.13140/RG.2.2.35584.38406>

Recabarren, R. E., **Gaillard, C.**, Guillod, M., & Martin-Soelch, C. (2019). *Multidimensional stress prevention program effects on psychological resources, mood, affective states and emotion regulation among university students*. Poster session presented at the International Society for Research on Emotion (ISRE) conference, Amsterdam, The Netherlands.

Guillod, M., **Gaillard, C.**, Recabarren, R. E., Schoebi, D., Gomez P., Horsch, A., Federspiel, A., Mueller-Pfeiffer, C., Merlo, M.C.G., Homan, P., Hasler, G., & Martin-Soelch, C. (2019). *Combining neuroscience and Self-determination theory approaches to correlate daily life self-reported and fMRI data on reward and stress experiences in young adults with family history of depression*. Poster presented at the 7th International Self-Determination Theory Conference, Egmond-Aan-zee, The Netherlands.  
DOI: <https://doi.org/10.13140/RG.2.2.12944.05128>

**Gaillard, C.**, Guillod, M., Ernst, M., Torrisi, S., Federspiel, A., Schoebi, D., Recabarren, E. R., Ouyang, X., Mueller-Pfeiffer, C., Horsch, A., Wiest, R., Hasler, G., & Martin-Soelch, C. (2019). *Striatal responsivity to reward cues under stress and working memory load: Insights for the vulnerability to major depression*. Poster session presented at the Stress Meeting, Basel, Switzerland.  
DOI: <https://doi.org/10.13140/RG.2.2.27742.48967>

Guillod, M., **Gaillard, C.**, Recabarren, R. E., Schoebi, D., Gomez P., Horsch, A., Federspiel, A., Mueller-Pfeiffer, C., Merlo, M.C.G., Homan, P., Hasler, G., & Martin-Soelch, C. (2019). *Objective and subjective dimensions of reward and stress experiences: Correlations between fMRI and daily life self-reported data*. Poster session presented at the Stress Meeting, Basel, Switzerland.  
DOI: <https://doi.org/10.13140/RG.2.2.33571.91683>

Recabarren, R. E., **Gaillard, C.**, Guillod, M., & Martin-Soelch, C. (2019). Resilient against stress. *Effects of a stress prevention program on indicators of well-being, and psychological resources in university students*. Poster session presented at the Stress Meeting, Basel, Switzerland.

**Gaillard, C.**, Guillod, M., Federspiel, A., Schoebi, D., Recabarren, R. E., Ouyang, X., Mueller-Pfeiffer, C., Horsch, A., Hasler, G., & Martin-Soelch, C. (2017). *Influence of stress on altered reward processing during reward anticipation and delivery*. Poster session presented at the Society for Neuroscience (SfN) meeting, Washington DC, USA.  
DOI: <https://doi.org/10.13140/RG.2.2.26153.49763>

**Gaillard, C.**, Guillod, M., Schoebi, D., Federspiel, A., Recabarren, R., Ribeiro, S., Hsieh-Meister, K., Mueller-Pfeiffer, C., Horsch, A., Hasler, G., & Martin-Soelch, C. (2017). *Adaptative emotion regulation modulates the impact of stress on reward sensitivity*. Poster session presented at the Swiss Psychological Society (SPS) meeting, Lausanne, Switzerland.  
DOI: <https://doi.org/10.13140/RG.2.2.22798.05445>

Guillod, M., **Gaillard, C.**, Recabarren, R., Schoebi, D., Merlo, M., Hasler, G., & Martin-Soelch, C. (2017). *Measures of daily mood, stress and reward responses in offspring of depressed parents*. Poster session presented at the 13<sup>th</sup> World Congress of Biological Psychiatry (WFSBP) meeting, Copenhagen, Denmark.  
DOI: <https://doi.org/10.13140/RG.2.2.17633.56168>

**Gaillard, C.**, Guillod, M., Federspiel, A., Recabarren, R., Hsieh-Meister, K., Schoebi, D., Ouyang, X., Mueller-Pfeiffer, C., Horsch, A., Hasler, G., & Martin-Soelch, C. (2016). *Reward, stress and performance: An fMRI study of reward processing under stress*. Poster session presented at the Organization for Human Brain Mapping (OHBM) meeting, Geneva, Switzerland.  
DOI: <https://doi.org/10.13140/RG.2.2.15626.52162>

Recabarren, R. E., **Gaillard, C.**, Guillod, M., & Martin-Soelch, C. (2016). *Effects of a prevention stress program on mindfulness skills among university students in Switzerland*. Poster session presented at the 46<sup>th</sup> Annual Congress of the European Association for Behavioral and Cognitive Therapies (EABCT), Stockholm, Sweden.

## RESEARCH EXPERIENCE

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- 2019 - Present      Postdoctoral Research Fellow  
National Institutes of Health, National Institute of Mental Health, Section on Neurobiology of Fear and Anxiety, Bethesda, MD, USA  
Principal Investigators: Dr. Monique Ernst, MD PhD and Dr. Christian Grillon
- 2013 - 2019        PhD student  
Unit of Clinical and Health Psychology, University of Fribourg, Switzerland
- 2017 - 2018        Research fellow as Special Volunteer  
National Institutes of Health, National Institute of Mental Health, Section on Neurobiology of Fear and Anxiety, Bethesda, MD, USA  
Principal Investigator and supervisor: Dr. Monique Ernst, MD PhD
- 2013 - 2014        Graduate research assistant  
Research Unit of the Center for Family Study, Lausanne University Hospital (CHUV), University of Lausanne, Switzerland  
Principal Investigator and supervisor: Dr. France Frascarolo
- 2012 - 2013        Undergraduate research assistant  
Unit of Developmental Psychology, Department of Psychology, University of Fribourg, Switzerland  
Principal Investigator: Prof. Dr. Valérie Camos
- 2012 - 2013        Undergraduate research assistant  
Psycholinguistics and applied social psychology lab, University of Fribourg, Switzerland  
Principal Investigator and supervisor: Dr. Pascal Wagner-Egger
- 2009 - 2010        Undergraduate research assistant  
Unit of Clinical and Health Psychology, Department of Psychology, University of Fribourg, Switzerland  
Principal Investigator: Prof. Dr. Michael Reicherts

## CLINICAL EXPERIENCE

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- 2012                Psychologist (maternity leave replacement)  
HorizonSud Foundation, Les Sciernes d'Albeuve, Switzerland
- 2011                Graduate fellow as a clinical psychologist  
HorizonSud Foundation, Les Sciernes d'Albeuve, Switzerland
- 2009                Undergraduate fellow as a clinical psychologist  
Unit of acute care, Mental Hospital of Nant Foundation, Nant, Switzerland

## TEACHING EXPERIENCE

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- 2019 Adjunct Lecturer  
Master of Advanced Studies (MAS) in Clinical Psychology, University of Geneva, Switzerland
- 2013 - 2019 Graduate teaching assistant  
Unit of Clinical and Health Psychology, Department of Psychology, University of Fribourg, Switzerland
- ✧ Fall semester 2014, 2015, 2016, 2017, and 2018: *Diagnostic : Conducting structured clinical interviews.*
  - ✧ Spring semester 2014, 2016, 2018: *Mind-body approaches and mindfulness : indications and applications in clinical and health psychology.*

## SUPERVISION AND MENTORING

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- 2013 - 2019 Supervision of five Master theses in collaboration with Prof. Dr. Chantal Martin-Soelch.
- 2013 - 2019 Supervision of six Bachelor theses in collaboration with Prof. Dr. Chantal Martin-Soelch.
- 2013 - 2019 Supervision, training, and mentoring of eight graduate interns.

## PROFESSIONAL AND ASSOCIATIVE COMMITMENTS

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- 2016 - 2017 Member representative in the Ethics Committee of the Department of Psychology, University of Fribourg, Switzerland
- 2014 - 2015 Member representative in the Fribourg Association of Psychologists (AFP, Association Fribourgeoise des Psychologues), Fribourg, Switzerland
- 2011 - 2013 Member representative in the Swiss Association of Students in Psychology (psyCH), Switzerland
- 2010 - 2011 Member representative in the Student Assembly (AGEF, Association Générale des Étudiant·e·s de l'Université de Fribourg) as president of the students of the Faculty of Humanities, University of Fribourg, Switzerland

## TECHNICAL SKILLS

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Statistical softwares: R Studio, Statistical Package for the Social Sciences (SPSS), Hierarchical Linear Modeling (HLM) software.

Analysis of brain imaging data: Analysis of Functional NeuroImages (AFNI).

Computerized experiment software: Experience using E-Prime.

## LANGUAGES

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French Native speaker

English Advanced, spoken and written

German Advanced, spoken and written

Bethesda, June 2020