

Clara Fonteneau

ASSOCIATE RESEARCH SCIENTIST • CLINICAL AND COMPUTATIONAL NEUROSCIENCE

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Academic Positions

2020 - present 2019 - 2020	Associate Research Scientist, Yale University Post-Doctoral Associate, Yale University Anticevic Lab, Division of Neurocognition, Neurocomputation & Neurogenetics (N3) <i>Integrating Multimodal Imaging: A Path to Identify Individual Differences</i> <u>Advisors:</u> Drs Anticevic & Krystal <u>Projects:</u> <ul style="list-style-type: none">• Multi-modal PET-MR methods development and integration within multimodal imaging pipeline (QuNex)• Brain-Behavior multimodal mapping across the mental health spectra (e.g. psychosis, mood spectrum, ptsd)• Interventional pharmacological approaches (Dopamine Receptor Agonist, Ketamine, Psilocybin)	<i>New Haven, USA</i>
2014-2018	PhD in Neuroscience, CRNL / INSERM / CNRS / UCBL1 / CH Le Vinatier PSYR2 Team, Centre de Recherche en Neurosciences de Lyon (CRNL) <i>Impact of a single frontal transcranial direct current stimulation on the dopaminergic network in healthy subjects</i> <u>Supervisors:</u> Drs M.F. Suaud-Chagny & J. Brunelin <u>Missions:</u> <ul style="list-style-type: none">• Transcranial stimulation in healthy humans (tDCS, rTMS)<ul style="list-style-type: none">◦ Impact of bifrontal tDCS on the dopaminergic transmission using PET imaging◦ Neurophysiological impact of fronto-temporal tDCS using a multimodal PET-MRI approach (PET dopamine, fMRI, ASL, DWI)• Pathophysiology and transcranial stimulation in patients with schizophrenia: DWI, MRS and IRMf data analysis (Impact of transcranial stimulation on structural (DWI) and functional connectivity (MRS, rs-fMRI) in patients with schizophrenia with and without hallucinations).	<i>Lyon, France</i>
2014 (5 months)	Master Student, Centre de Recherche en Neurosciences de Lyon (CRNL) DYCOG Team <i>Mecanisms of attentional preparation in the auditory cortex</i> <u>Supervisors:</u> Dr A. Bidet-Caulet & Dr O. Bertrand <u>Missions:</u> Electrophysiological recordings (intracranial EEG , evoked potential and time-frequency)	<i>Lyon, France</i>
2013 (6 weeks)	Undergraduate Student, UC Berkeley Helen Wills Neurosciences Institute <i>Neurophysiological mechanisms of auditory attention in humans</i> <u>Supervisors:</u> Pr R. Knight & Dr A. Bidet-Caulet <u>Missions:</u> Electrophysiological recordings (scalp EEG) in patients with frontal lesions and healthy controls	<i>Berkeley, USA</i>
2012 (5 weeks)	Research Assistant, Centre de Recherche en Neurosciences de Lyon (CRNL) DYCOG Team <i>Attentional preparation and distractibility: a scalp EEG study</i> <u>Supervisors:</u> Dr A. Bidet-Caulet & Dr O. Bertrand	<i>Lyon, France</i>

2011 (2 months)	Research Assistant, Institut des sciences cognitives (ISC) UMR 5229 <i>Decision making and Reward – An fMRI study</i> <u>Supervisors:</u> Dr J.C. Dreher	Lyon, France
(1 month)	Research Assistant, Centre de Recherche en Neurosciences de Lyon (CRNL) IMPACT Team <i>Visuo-spatial representation – Visual attention and Heminegligence</i> <u>Supervisors:</u> Dr L. Pisella	Lyon, France

Education

		Claude Bernard Lyon 1 University, France
2015-2018	PhD, Neurosciences	
2012-2014	Master of Science, Neurosciences	
2010-2012	Bachelor of Science, Biology and Physiology	

Industry

2022 - present	Manifest Technologies Data Scientist, Consultant <u>Missions:</u> PET analytics projects and Multimodal neuroimaging quality control	remote
2019	Numora (previously RBNC and BlackThorn) Data Scientist, Consultant <u>Missions:</u> Multimodal neuroimaging processing, Quality control and PET analytics project	remote

Grants

Active		
2022-2025	Hyperactivity and Hyperconnectivity as a Neural Marker of Efficacy for Cognitive Deficits in Early-Course Psychosis <u>PI:</u> Anticevic <u>Role:</u> Co-I [Study oversight: regulatory, data management, recruitment and analytics]	Boehringer Ingelheim International, GmbH
2020-2025	5U01MH124639: Psychosis Risk Outcomes Network (Pro-NET) <u>MPIs:</u> Woods/Anticevic <u>Role:</u> Co-I [Dataflow infrastructure]	NIMH
2019-2023	5U01MH121766-02: A Translational and Neurocomputational Evaluation of a D1R Partial Agonist for Schizophrenia (TRANSCENDS) <u>MPIs:</u> Krystal/Anticevic <u>Role:</u> Co-I [Study Administrative and Scientific Director]	NIMH
Pending		
2024-2029	Cross-diagnostic mapping of common and distinct brain-symptoms effects across the psychiatric spectrum <u>PI:</u> Anticevic <u>Role:</u> Co-I [Co-developer]	NIH/DHHS
2024-2029	BEEST (Biomarkers to Enhance Early Schizophrenia Treatment) <u>PI:</u> Subaward Prime PI <u>Role:</u> Co-I [Dataflow infrastructure and analytics consultant]	CAMH (NIH/DHHS)
2024-2029	ProCAN: Psychosis Risk Outcomes Compound Assessment Network <u>PI:</u> Woods <u>Role:</u> Co-I [Dataflow infrastructure and analytics consultant]	NIMH/NIH/DHHS

Completed

2015-2018	COMBISTIM <u>PI</u> : Dr Suaud-Chagny <u>Role</u> : Co-I [Study Lead – PhD project]
2015-2016	DOPASTIM <u>PI</u> : Dr Brunelin <u>Role</u> : Co-I [Study Lead – PhD project]

Fondation Neurodis

CSR Le Vinatier

Honors and Awards

- 2017 **Poster presentation 1st place** – Non Invasive Brain stimulation techniques (NIBS) for psychiatric disorders, Germany
- 2017 **Young Investigator Travel Award**, 2nd International Brain Stimulation conference, Barcelona, Spain
- 2015 **Poster presentation 2nd place**, Non-Invasive brain stimulation techniques (NIBS) for psychiatric disorders, Belgium

Publications

Coming Soon

1. **Fonteneau Clara**, Merida Ines, Redouté Jérôme, Haesebaert Frédéric, Le Bars Didier, Costes Nicolas, Brunelin Jérôme, Suaud-Chagny Marie-Françoise; Neurophysiological impact of a fronto-temporal transcranial direct current stimulation (tDCS) in healthy humans: a simultaneous PET-MR approach. In preparation.
2. **Fonteneau Clara+**, Lee Kangjoo+, Price Ally, Berkovitch Lucie, Ji Jie L, Tamayo Zailyn, Afriyle-Agyemang Yvette, Howell Amber, Repovs Grega, Murray John D, Cho Youngsun, Anticevic Alan. Neuro-behavioral enrichment analysis in psychosis spectrum youth. In preparation. (+co-first authors)
3. **Fonteneau Clara**, Holmes Sophie, DeLorenzo Christine, Krystal John H, Carson Richard E, Esterlis Irina, Anticevic Alan; Ketamine and Depression - a Multimodal PET-MR Imaging Approach. In preparation.
4. Rahmati M, Moujaesa F, Schleifer C, Ji JL, **Fonteneau C**, Lee K, Tamayo Z, Santamauro N, Repov, G, Fineberg S, Krystal JH, Murray JD, Cho Y, Anticevic A. Effects of NMDA receptor antagonist Ketamine on neural tuning and working memory. Under review by co-authors
5. **Fonteneau Clara+**, Tamayo Zailyn+ et al. [TRANSCENDS Consortium]; Translational Neuroscience & Computational Evaluation of a D1R Partial Agonist for Schizophrenia (TRANSCENDS) – Protocol. Under review by co-authors

Research Articles

1. Berkovitch Lucie, Lee Kangjoo, Ji Jie L., Demšar Jure, Kraljič Aleksij, Matkovič Andraž, Tamayo Zailyn, Murray John D., Repovš Grega, Anticevic Alan+, **Fonteneau Clara+** (2023) A common symptom geometry of mood improvement under sertraline and placebo associated with distinct neural patterns. (+co-last author); bioRxiv.
2. Kangjoo Lee, Jie Lisa Ji, **Fonteneau Clara**, Lucie Berkovitch, Masih Rahmati, Lining Pan, Grega Repovš, John H. Krystal, John D. Murray, Alan Anticevic (2023) Human brain state dynamics reflect individual neuro-phenotypes; bioRxiv 2023.09.18.557763
3. Amber M Howell, Shaun Warrington, **Fonteneau Clara**, Youngsun T. Cho, Stamatios Sotiropoulos, John D Murray, Alan Anticevic (2023) The spatial extent of anatomical connections within the thalamus varies across the cortical hierarchy in humans and macaques; bioRxiv 2023.07.22.550168
4. Jie Lisa Ji, Jure Demšar, **Fonteneau Clara**, Zailyn Tamayo, Lining Pan, Aleksij Kraljič, Andraž Matkovič, Nina Purg, Markus Helmer, Shaun Warrington, Anderson Winkler, Valerio Zerbi, Timothy S. Coalson, Matthew F. Glasser, Michael P. Harms, Stamatios N. Sotiropoulos, John D. Murray, Alan Anticevic, Grega Repovš (2023) QuNex –An Integrative Platform for Reproducible Neuroimaging Analytics. Frontiers in Neuroinformatics
5. Flora Moujaes, Jie Lisa Ji, Masih Rahmati, Joshua Burt, Charles H. Schleifer, Brendan Adkinson, Aleksandar Savič, Nicole Santamauro, Zailyn Tamayo, Caroline Diehl, Antonija Kolobaric, Morgan Flynn, Nathalie M. Rieser, **Fonteneau Clara**, Terry Camarro, Junqian Xu, Youngsun T. Cho, Grega Repovš, Sarah K. Fineberg, Peter Morgan, Erich Seifritz, Franz X. Vollenweider, John Krystal, John D. Murray, Katrin H. Preller, Alan Anticevic (2022) Ketamine induces multiple individually distinct whole-brain functional connectivity signatures; bioRxiv 2022.11.01.514692
6. Ji Jie L, Helmer Markus, **Fonteneau Clara**, Burt Josh B, Tamayo Zailyn, Demšar Jure, Adkinson Brendan D, Savič Aleksandar, Preller Katrin H, Moujaes Flora, Vollenweider FX, Martin William J, Repovš Grega, Cho Youngsun T, Pittenger Chris, Murray John D, Anticevic Alan. (2021) Mapping brain-behavior space relationships along the psychosis spectrum. Elife
7. Mondino Marine, **Fonteneau Clara**, Simon Louis, Dondé Clément, Haesebaert Frédéric, Poulet Emmanuel, Brunelin Jerome (2021) Advancing clinical response characterization to frontotemporal transcranial direct current stimulation with electric field distribution in patients with schizophrenia and auditory hallucinations: A pilot study; Eur Arch Psychiatry Clin Neurosci

8. Irace Zacharie, Merida Ines, Redoute Jerome, **Fonteneau Clara**, Suaud-Chagny Marie-Françoise, Brunelin Jérôme, Vidal Benjamin, Zimmer Luc, Reilhac Anthonin, Costes Nicolas (2020) Bayesian Estimation of the ntPET Model in Single-Scan Competition PET Studies; *Frontiers in Physiology*
9. **Fonteneau Clara**, Redouté Jérôme, Haesebaert Frédéric, Le Bars Didier, Costes Nicolas, Suaud-Chagny Marie-Françoise, Brunelin Jérôme (2018) Frontal transcranial direct current stimulation induces dopamine release in the ventral striatum in human, *Cerebral Cortex*, Volume 28, Issue 7, 1 July 2018, Pages 2636–2646, <https://doi.org/10.1093/cercor/bhy093>
10. Psomiades Marion, Mondino Marine, **Fonteneau Clara**, Bation Rémy, Haesebaert Frédéric, Suaud-Chagny Marie-Françoise, Brunelin Jérôme (2018) N-Acetyl-Aspartate in the dorsolateral prefrontal cortex in men with schizophrenia and auditory verbal hallucinations: A 1.5T Magnetic Resonance Spectroscopy Study; *Scientific Report*
11. Psomiades Marion, **Fonteneau Clara**, Mondino Marine, Luck David, Haesebaert Frederic, Suaud-Chagny Marie-Françoise, Brunelin Jérôme (2016) Integrity of the arcuate fasciculus in patients with schizophrenia with and without auditory verbal hallucinations: A DTI-tractography study; *NeuroImage: Clinical* 12; 970–975 <http://dx.doi.org/10.1016/j.nicl.2016.04.013>
12. Bidet-Caulet A, Bottemanne L, **Fonteneau C**, Giard M-H, Bertrand O (2014) Brain Dynamics of Distractibility: Interaction Between Top-Down and Bottom-Up Mechanisms of Auditory Attention. *Brain Topography*

Reviews, Chapters & Commentaries

1. Christian G. Kohler, Daniel H. Wolf, Anissa Abi-Dargham, Alan Anticevic, Youngsun T. Cho, **Fonteneau Clara**, Roberto Gil, Ragy R. Girgis, David L. Gray, Jack Grinband, Jonathan A. Javitch, Joshua T. Kantrowitz, John H. Krystal, Jeffrey A. Lieberman, John D. Murray, Mohini Ranganathan, Nicole Santamauro, Jared X. Van Snellenberg, Zailyn Tamayo, Deepak D'Souza, Vinod Srihari, Ralitzha Gueorguieva, Prashant Patel, Kimberlee Forselius-Bielen, Jing Lu, Audrey Butler, Geena Fram, Yvette Afriyie-Agyemang, Alexandria Selloni, Laura Cadavid, Sandra Gomez-Luna, Aarti Gupta, Rajiv Radhakrishnan, Ali Rashid, Ryan Aker, Philisha Abraham, Anahita Bassir Nia, Toral Surti, Lawrence S. Kegeles, Marlene Carlson, Terry Goldberg, James Gangwisch, Erinne Benedict, Preetika Govil, Stephanie Brazis, Megan Mayer, Nathalie de la Garrigue, Nataalka Fallon, Topaz Baumvoll, Sameera Abeykoon, Greg Perlman, Kelly Bobchin, Mark Elliott, Lyndsay Schmidt, Sage Rush, Allison Port, Zac Heffernan, Nina Laney, Jenna Kantor, Thomas Hohing, Ruben C. Gur, Raquel E. Gur, Monica E. Calkins (2023) Illness Phase as a Key Assessment and Intervention Window for Psychosis, *Biological Psychiatry Global Open Science*, Volume 3, Issue 3, 2023, Pages 340-350, ISSN 2667-1743
2. Anissa Abi-Dargham, Jonathan A Javitch, Mark Slifstein, Alan Anticevic, Monica E Calkins, Youngsun T Cho, **Fonteneau Clara**, Roberto Gil, Ragy Girgis, Raquel E Gur, Ruben C Gur, Jack Grinband, Joshua Kantrowitz, Christian Kohler, John Krystal, John Murray, Mohini Ranganathan, Nicole Santamauro, Jared Van Snellenberg, Zailyn Tamayo, Daniel Wolf, TRANSCENDS Group, David Gray, Jeffrey Lieberman (2021) Dopamine D1R Receptor Stimulation as a Mechanistic Pro-cognitive Target for Schizophrenia; *Schizophrenia Bulletin*
3. **Fonteneau Clara**, Mondino Marine, Arns Martijn, Baeken Chris, Bikson Marom, Brunoni Andre R, Burke Matthew J, Neuvonen Tuomas, Padberg Frank, Pascual-Leone Alvaro, Poulet Emmanuel, Ruffini Giulio, Santarnecchi Emiliano, Sauvaget Anne, Schellhorn Klaus, Suaud-Chagny Marie-Francoise, Palm Ulrich, Brunelin Jérôme (2019) Sham tDCS: a hidden source of variability? Reflections for further blinded, controlled trials; *Brain Stimulation*, <https://doi.org/10.1016/j.brs.2018.12.977>
4. **Fonteneau Clara***, Psomiades Marion*, Suaud-Chagny Marie-Françoise, Haesebaert Frédéric, Brunelin Jérôme (2015) Neurostimulation du cortex préfrontal dorsolatéral : quels effets sur la symptomatologie et les émotions dans la dépression et la schizophrénie ? ; *Santé mentale au Québec*; *co-author
5. Mondino Marine, **Fonteneau Clara**, Brunelin Jérôme (2015) Schizophrenia. Book Chapter in *Transcranial Direct Current Stimulation in Neuropsychiatric Disorders: Clinical Principles and Management* by Brunoni AR, Nitsche MA, Loo CK. Springer NY, USA

Open Science Contributions

2019 - present

Quantitative Neuroimaging Environment & Toolbox (QuNex)

[code](#)

Core Team Developer

Link: <https://qunex.yale.edu/>

Presentations

Invited Conference Talks & Symposia

1. Kangjoo Lee, Jie Lisa Ji, **Fonteneau Clara**, Lucie Berkovitch, Masih Rahmati, Lining Pan, Grega Repovš, John H. Krystal, John D. Murray, and Alan Anticevic (2024) "Human brain state dynamics reflect individual neuro-phenotypes", *Clinical Applications of Precision Imaging Symposium*, Society of Biological Psychiatry's Annual Meeting, May 9-11, 2024 (Accepted for Oral Presentation)

2. **Fonteneau Clara (2020)**; Mapping neurodevelopmental trajectories of thalamo-cortical systems across mental health spectra. Appetitive Neuroimaging Seminar Series, Yale Interdepartmental Neuroscience Program, Yale University
3. **Fonteneau Clara (2018)** Neurophysiological impact of a fronto-temporal transcranial direct current stimulation (tDCS) in healthy humans: a simultaneous PET-MR approach; Talk in the symposium: Transcranial direct current stimulation for auditory hallucinations: evidence from clinical and neurophysiological studies. 3rd European Conference on Brain Stimulation in Psychiatry; Lyon, France
4. **Fonteneau Clara (2018)** Online transcranial direct current stimulation of the prefrontal cortex induces dopamine release in the ventral striatum in humans. Annual Scientific Meeting, Doctoral School of Neuroscience and Cognition, Lyon
5. Merida Inés, Fonteneau Clara, Reilhac Anthonin, Redouté Jérôme, Irace Zacharie, Suaud-Chagny Marie-Françoise, Hammers Alexander, Costes Nicolas; Motion correction and multi-atlas attenuation correction applied to a simultaneous bolus/infusion PET-MR brain study; Talk given (by I. Merida) at 6th PET-MRI and SPECT-MRI (PSMR) Conference; Lisbon, Portugal, May 2017
6. **Fonteneau Clara (2017)** Exploration of PET modeling methods in the case of displacement by an endogenous neurotransmitter (lp-ntPET approach) [L'exploration des méthodes de modélisation TEP dans le cas de déplacement par un neurotransmetteur endogène (approche lp-ntPET)], Journal Club CERMEP, Lyon
7. **Fonteneau Clara (2017)** Neurophysiological impact of a fronto-temporal transcranial direct current stimulation (tDCS) in healthy subjects: a PET-MR multimodal imaging approach. NeurolImaging Journal Club, CRNL, Lyon Journée Scientifique LILI – IRM-TEP, Lyon
8. **Fonteneau Clara (2016)** Effets de la stimulation transcrânienne en courant continu sur la transmission dopaminergique chez le sujet sain. Partenariat Université Lyon 2 et Conseil scientifique de la recherche CH Le Vinatier, Lyon
9. **Fonteneau Clara (2016)** Neurophysiological impact of transcranial direct current stimulation (tDCS) in healthy subjects. Berenson-Allen Center for NonInvasive Brain Stimulation, Boston
10. **Fonteneau Clara (2016)** Neurophysiological impact of a fronto-temporal transcranial direct current stimulation (tDCS) in healthy subjects: a multimodal imaging approach. Conseil scientifique de la Fondation Neurodis, Lyon

Contributed Conference Talks, Panels & Symposia

1. **Fonteneau Clara**, Forest Jeremy (2016) Co-organizer, Big Data in Neuroscience Conference. Invited guest speakers: Dr G. Varoquaux, Dr P-A Gourraud, Dr N. Lechopier [CRNL]

Selected Posters

1. **Clara Fonteneau**, Mika Naganawa, Sophie Holmes, Markus Helmer, Jie Lisa Ji, Irina Esterlis, William J. Martin, Richard E. Carson, Alan Anticevic, "Advancing PET Surface-based Analysis - Integration in a Multimodal Imaging Pipeline", Organization for Human Brain Mapping (OHBM), 2024 (Submitted)
2. Kangjoo Lee, Jie Lisa Ji, **Clara Fonteneau**, Lucie Berkovitch, Masih Rahmati, Lining Pan, Grega Repovš, John H. Krystal, John D. Murray, and Alan Anticevic, "State-trait dynamics of the human brain reflect individual behavior and life functions", "Symposia: Brain State and Trait Dynamics in Mental Illnesses", Organization for Human Brain Mapping (OHBM), 2024 (Submitted)
3. Kangjoo Lee, **Clara Fonteneau**, Ally Price, Lucie Berkovitch, Jie Lisa Ji, Zailyn Tamayo, Yvette Afriyie-Agyemang, Amber Howell, Grega Repovš, John D. Murray, Youngsun Cho, Alan Anticevic, "Non-linear Impact of Symptom Severity on Effect Size of Neuro-Symptom Variations in Psychosis", Organizations for Human Brain Mapping (OHBM), 2024 (Submitted)
4. Kangjoo Lee, **Clara Fonteneau**, Ally Price, Lucie Berkovitch, Jie Lisa Ji, Zailyn Tamayo, Yvette Afriyie-Agyemang, Amber Howell, Grega Repovš, John D. Murray, Youngsun Cho, Alan Anticevic, "Symptom Severity of Sample Population Impacts the Reproducibility of Neuro-Symptom Relationship in Psychosis", Society of Biological Psychiatry (SOBP), 2024 (Submitted)
5. Ziv Ben-Zion, Kangjoo Lee, **Clara Fonteneau**, Israel Liberzon, Arie Y. Shalev, Talma Hendler, Ifat Levy, Alan Anticevic, Ilan Harpaz-Rotem, "Neurobehavioral Mapping of Posttraumatic Stress Disorder Development in Recent Trauma Survivors", Society of Biological Psychiatry (SOBP), 2024 (Submitted)
6. **Clara Fonteneau**, Kangjoo Lee, Lucie Berkovitch, Ally Price, Jie Lisa Ji, Lining Pan, Zailyn Tamayo, Yvette Afriyie-Agyemang, Amber Howell, Grega Repovš, John D. Murray, Alan Anticevic, "Characterizing Thalamocortical Network Development in Psychosis Spectrum Youth", Organizations for Human Brain Mapping (OHBM), 2023
7. **Clara Fonteneau**, Kangjoo Lee, Lucie Berkovitch, Chenyang Lin, Lining Pan, Zailyn Tamayo, Xia Wei, Grega Repovš, John D. Murray, Su Lui, Qiyong Gong, Alan Anticevic, "Mapping the neurobiological and behavioral progression of early course schizophrenia", Organizations for Human Brain Mapping (OHBM), 2023
8. **Clara Fonteneau**, Lucie Berkovitch, Kangjoo Lee, Jie Lisa Ji, Jure Demšar, Aleksij Kraljic, Andraz Matkovic, Zailyn Tamayo, John D. Murray, Grega Repovš, Alan Anticevic, "Mapping Individually Actionable Brain-Behavior Space Variation Across the Mood Spectrum", Organizations for Human Brain Mapping (OHBM), 2023
9. Chenyang Lin, **Clara Fonteneau**, Kangjoo Lee, Lucie Berkovitch, Lining Pan, Zailyn Tamayo, Xia Wei, Grega Repovš, John D. Murray, Su Lui, Qiyong Gong, Alan Anticevic, Mapping the neurobiological and behavioral progression of early course schizophrenia, Society of Biological Psychiatry (SOBP), 2023

10. Lucie Berkovitch, **Clara Fonteneau**, Kangjoo Lee, Jie Lisa Ji, Jure Demšar, Zailyn Tamayo, John Murray, Grega Repovš, Alan Anticevic, Mapping Individually Actionable Brain-Behavior Space Variation Across the Mood Spectrum, Society of Biological Psychiatry (SOBP), 2023
11. Ally Price, **Clara Fonteneau**, Kangjoo Lee, Lucie Berkovitch, Jie Lisa Ji, Lining Pan, Zailyn Tamayo, Yvette Afriyie-Agyemang, Amber Howell, Grega Repovš, John D. Murray, Youngsun Cho, Alan Anticevic, Characterizing thalamocortical network development in psychosis spectrum youth, Society of Biological Psychiatry (SOBP), 2023
12. Jie Lisa Ji, Jure Demšar, **Clara Fonteneau**, Shaun Warrington, Zailyn Tamayo, Aleksij Kraljič, Andraž Matkovič, Nina Purg, Markus Helmer, Stamatios Sotiropoulos, John Murray, Alan Anticevic, Grega Repovš, A Scalable Platform for Integrated Multi-Modal Neuroimaging Data Processing and Analysis Across Psychiatric Studies, Society of Biological Psychiatry (SOBP), 2022
13. **Clara Fonteneau**, Lisa Jie Ji, Jure Demšar, Aleksij Kraljič, Andraž Matkovič, Zailyn Tamayo, Vicki Foss, Oscar Rodriguez, Pablo Gersberg, John D. Murray, William J. Martin, Grega Repovš, Alan Anticevic, Mapping Individually Actionable Brain-Behavior Space Variation Across the Mood Spectrum, Organizations for Human Brain Mapping (OHBM), 2020
14. **Clara Fonteneau**, Amber Howell, Geena Fram, Audrey Butler, Yvette Afriyie-Agyemang, Diego Martell, Lisa Jie Ji, Grega Repovš, Neil Woodward, Alan Anticevic, Mapping Neurodevelopmental Trajectories of Thalamo-cortical Systems Across the Mental Health Spectra, Organizations for Human Brain Mapping (OHBM), 2020
15. **Clara Fonteneau**, Amber Howell, Geena Fram, Audrey Butler, Yvette Afriyie-Agyemang, Lisa Jie Ji, Grega Repovš, Neil Woodward, Alan Anticevic, Mapping Neurodevelopmental Trajectories of Thalamo-cortical Systems Across the Mental Health Spectra, Society of Biological Psychiatry (SOBP), 2020
16. Simon Louis, **Fonteneau Clara**, Poulet Emmanuel, Mondino Marine, Brunelin Jérôme; Fronto-temporal transcranial direct current stimulation (tDCS) for auditory verbal hallucination in schizophrenia ; Poster presented at Congrès Français de Psychiatrie; Nice France; December 2019
17. **Fonteneau Clara**, Ji Lisa Jie, Howell Amber, Repovš Grega, Dickie Erin W, Coalson Timothy S, Andersson Jesper, Glasser Matthew F, Anticevic Alan; Advancing Legacy fMRI Analyses: Towards Fieldmap-free Susceptibility Distortion Correction of GRE EPI Data; Poster presented at Society for Neuroscience; Chicago, USA, October 2019
18. **Fonteneau Clara**, Howell Amber, Kolobaric Antonija, Ji Lisa Jie, Repovš Grega, Woodward Neil D, Anticevic Alan; Mapping neurodevelopmental trajectories of thalamo-cortical systems across the mental health spectra; Poster presented at Society for Neuroscience; Chicago, USA, October 2019
19. Howell Amber, Warrington Shaun, Ji Lisa Jie, Adkinson Brendan, **Fonteneau Clara**, Sotiropoulos Stamatios. N, Murray John D, Anticevic Alan; Defining Targeted Projection Patterns in Thalamus using Diffusion Weighted Imaging; Poster presented at Society for Neuroscience; Chicago, USA, October 2019
20. **Fonteneau Clara**, Mondino Marine, Arns Martijn, Baeken Chris, Bikson Marom, Brunoni Andre R, Burke Matthew J, Neuvonen Tuomas, Padberg Frank, Pascual-Leone Alvaro, Poulet Emmanuel, Ruffini Giulio, Santarnecchi Emiliano, Sauvaget Anne, Schellhorn Klaus, Suaud-Chagny Marie-Francoise, Palm Ulrich, Brunelin Jérôme; Sham tDCS: a hidden source of variability? Reflections for further blinded, controlled trials; Poster presented at 3rd European Conference on Brain Stimulation in Psychiatry; Lyon, France, October 2018
21. Intartaglia Bastien, ElShafei Hesham, **Fonteneau Clara**, Catenoix Hélène, Bonnefond Mathilde, Bertrand Olivier, Bidet-Caulet Aurélie; Brain oscillatory dynamics in the bottom-up/top-down balance of auditory attention: intracranial recordings; Poster presented at 2nd Salzburg Mind – Brain Annual Meeting, SAMBA 2018.
22. **Fonteneau Clara**, Merida Inès, Redouté Jérôme, Haesebaert Frédéric, Costes Nicolas, Brunelin Jérôme, Suaud-Chagny Marie-Françoise; Neurophysiological impact of a fronto-temporal transcranial direct current stimulation in healthy subjects: a multimodal PET-MR imaging approach; Poster presented at *Non Invasive Brain stimulation techniques (NIBS) for psychiatric disorders*; Munich, Germany; October 2017 ***1st poster prize**
23. Merida Inés, **Fonteneau Clara**, Reilhac Anthonin, Redouté Jérôme, Irace Zacharie, Suaud-Chagny Marie-Françoise, Hammers Alexander, Costes Nicolas; Motion correction and multi-atlas attenuation correction applied to a simultaneous bolus/infusion PET-MR brain study; Talk given (by I. Merida) at 6th PET-MRI and SPECT-MRI (PSMR) Conference; Lisbon, Portugal, May 2017
24. Merida Inés, Hammers Alexander, Redouté Jérôme, McGinnity Colm, **Fonteneau Clara**, Suaud-Chagny Marie-Françoise, Reilhac Anthonin, Costes Nicolas; Attenuation correction with a multi-atlas method for brain PET-MR imaging: assessment with realistic simulated [¹¹C]raclopride bolus-infusion PET data ; Poster presented at *28th International Symposium on Cerebral Blood Flow, Metabolism and Function & 13th International Conference on Quantification of Brain Function with PET*; Berlin, Germany, April 2017
25. **Fonteneau Clara**, Haesebaert Frédéric, Redouté Jérôme, Le Bars Didier, Costes Nicolas, Brunelin Jérôme, Suaud-Chagny Marie-Françoise ; Online transcranial direct current stimulation of the frontal cortex induces dopamine release in the striatum – a spatial and temporal analysis in healthy humans ; Poster presented at *2nd International Brain Stimulation conference*, Barcelona, Spain; March 2017

26. Reilhac Anthonin, Berrada Rania, Irace Zacharie, Merida Inés, **Fonteneau Clara**, Suaud-Chagny Marie-Françoise, Costes Nicolas ; Développements d'une méthode de correction de mouvement en IRM-TEP cérébrale ; Poster presented at *Recherche en Imagerie et Technologie pour la santé (RITS)*, Lyon, France, Mars 2017
27. **Fonteneau Clara**, Haesebaert Frédéric, Villien Marjorie, Redouté Jérôme, Le Bars Didier, Costes Nicolas, Brunelin Jérôme, Suaud-Chagny Marie-Françoise ; Neurophysiological impact of a fronto-temporal transcranial direct current stimulation in healthy subjects: a multimodal PET-MR imaging approach; Poster presented at *11th International Symposium on Functional NeuroReceptor Mapping of the Living Brain*, Boston, USA; July 2016
28. **Fonteneau Clara**, Haesebaert Frédéric, Redouté Jérôme, Le Bars Didier, Costes Nicolas, Brunelin Jérôme, Suaud-Chagny Marie-Françoise ; Acute and subsequent effects of transcranial direct current stimulation on the dopaminergic transmission in healthy humans ; Poster presented at *11th International Symposium on Functional NeuroReceptor Mapping of the Living Brain*, Boston, USA; July 2016
29. **Fonteneau Clara**, Redouté Jérôme, Le Bars Didier, Costes Nicolas, Brunelin Jérôme, Suaud-Chagny Marie-Françoise; Impact of transcranial direct current stimulation on the dopaminergic transmission in healthy humans; Poster presented at *Non Invasive Brain stimulation techniques (NIBS) for psychiatric disorders* Ghent, Belgium; December 2015 ***2nd poster prize**
30. Psomiades Marion*, **Fonteneau Clara***, Haesebaert Frédéric, Suaud-Chagny Marie-Françoise, Brunelin Jérôme. Does prefrontal non invasive brain stimulation alleviating symptoms in depression and schizophrenia impact emotion processing ?; Poster presented at *Non Invasive Brain stimulation techniques (NIBS) for psychiatric disorders* Ghent, Belgium; December 2015; * co-author

Mentorship

Primary Supervisor

- Layla Lavalle (PhD Student, Visiting student, Clinical Neuroscience, 2021-2022): advised and mentored on project
- Julie Renaud (MSc Clinical Neuroscience, 2016-2017): advised during internship
- Jeanne Monnier (MSc Clinical Neuroscience, 2015): advised during internship

Assisted in the Supervision

- Masih Rahmati (Post-Doctoral Associate, 2021-present): advises on projects
- Amber Howell (PhD Student, Interdepartmental Neuroscience Program, 2019-present): advises on projects
- Catrin Zharyy (postgraduate associate, 2022-present): advises and mentors on projects
- Courtney Cail (postgraduate associate, 2022-present): advises and mentors on projects
- Samuel Brege (postgraduate associate, 2022-present): advises and mentors on projects
- Lucie Berkovitch (Post-Doctoral Associate, 2021-2023): advised on projects
- Ally Price (postgraduate associate, 2022-present): advised and mentored on projects
- Chenyang Lin (postgraduate associate, 2022-present): advised and mentored on projects
- Lining Pan (postgraduate associate, 2022-present): advised and mentored on projects
- Yvette Afriyie-Agyemang (postgraduate associate, 2022-present): advised and mentored on projects
- Ryan Aker (postgraduate associate, 2022-present): advised and mentored on projects
- Geena Fram (postgraduate associate, 2022-present): advised and mentored on projects
- Audrey Butler (postgraduate associate, 2022-present): advised and mentored on projects
- Louis Simon (MSc Clinical Neuroscience, 2017-2018): advised and mentored on projects
- Charline Magnin (MSc Clinical Neuroscience, 2018-2019): advised and mentored on projects

Teaching

2017	Guest Lecturer - Transcranial Direct Current Stimulation (tDCS) & Neuroimaging STEP – Transcranial Stimulation in Psychiatry, From Theory to Practice
2016-2017	Instructor – Neurophysiology: Teaching assistant in the Neurosciences department (undergraduate level course). Practice work within a broader course involving general neurophysiology which reviewed all the different sensory modalities as well as motor function and memory. Practice work consisted in the microscope histological observations of tissue samples from every modality where students were asked to draw and legend what they saw. Claude Bernard Lyon 1 University

2010-2013	Tutor: English Participated as a core member in the Tutoring center of the Lyon 1 University at least twice a week. Expected number of students tutored >100, either in groups or 1-1. Experience from basic English communication to Preparation for high level English certification [e.g. TOEFL, TOIC, B2 First, C1 Advanced, C2 Proficiency] Claude Bernard Lyon 1 University
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Professional Service

Memberships	Society for Neuroscience, Transcranial Stimulation in Psychiatry (STEP)
Peer Review	Journal of Neurochemistry; Neuropsychopharmacology; Schizophrenia Bulletin; Scientific Reports; NeuroImage Clinical
Lab services	Training and Mentoring new lab members (2019-present) <u>Weekly trainings:</u> Neuroimaging processing & analytics, BIDS, Introduction to R, Bash and Python, XNAT and Docker Container usage Organizer Journal Club (PsyR2 Team, 2015-2018) Grant and Funding watch for PsyR2 Team (2015-2018)

Skills

Regulatory	Research project design, Grant submission, Clinical trial management (budget, ethics requirements, subject recruitment)
Imaging	PET acquisition and analysis; MRI acquisition and analysis (ASL, DWI, resting-state and spatial working memory fMRI); Brain Stimulation (tDCS, TMS), Scalp and intracranial EEG acquisition and analysis
Programing	Bash, Python, R, LaTeX
Communication	English bilingual, German conversation, Spanish proficient

Interests

Sports	Rock climbing, Alpinism, Ski
Hobbies	Photography, Cooking, Trekking, Cello