

Claire Braboszcz

Cognitive Neurosciences

32 years old
French citizenship
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Current project - Marie Sklodowska-Curie Research Fellow

Laboratory School of Psychology, University of Plymouth, UK
Thematic *EEG time-frequency characteristics and decoding of mental imagery*
Supervisor Pr. Giorgio Ganis
Keywords electroencephalographie, brain decoding, mental imagery, introspection, first-person data, attention, oscillations, psychometry

Education

- 2013-2015 **Research fellow**, *fMRI study of the hypnotic state and empathy to pain*, Laboratory for Behavioral Neurology and Imaging of Cognition, University of Geneva, Geneva, Switzerland, Collaboration with Pr. Patrik Vuilleumier.
- 2008-2012 **PhD in Cognitive Neurosciences**, *The electroencephalographic correlates of mind wandering and meditation*, Center for Brain and Cognition Research, Toulouse, France, Supervised by Dr Arnaud Delorme, PhD.
- 2007-2008 **M.S degree 2nd year in 'Neuroscience, Behavior and Cognition'**, *University of Toulouse 3 Paul Sabatier*, Toulouse, France, With Honors.
- 2006-2007 **M.S degree 1st year in Cognitive Sciences**, *University Lumiere Lyon 2*, Lyon, France, *Exchange student at the University of British Columbia (UBC), Vancouver, Canada.*
With Honors
- 2003-2006 **B.A in Cognitive Sciences**, *University Lumiere Lyon 2*, Lyon, France, With Honors.
- Breaks in career* 3 periods of maternity leave for a total of about 16 months between 2011 and 2016

Grants and Fundings

- 2015 **2 years research fellowship**, *Individual Marie Sklodowska-Curie European research grant.*
- 2013 **2 years research fellowship**, *Marie-Curie BRIDGE Co-fund and Fyssen Foundation.*
- 2012 **End of PhD fellowship**, *Foundation for Medical Research (FRM).*
- 2011 **3 months fellowship**, *German office for academic exchange.*
- 2008 **3 years PhD scholarship**, *French National Research Center (BDI, CNRS).*

International Experience

- 2015- **United Kingdom, University of Plymouth**, *post-doctoral collaboration.*
- 2013-2015 **Switzerland, University of Geneva**, *post-doctoral collaboration.*
- 2011 **Germany - 2 months, Max Planck Institute for Psychiatry, Munich**, *collaboration on a combined EEG/fMRI study.*

- 2009–2010 **India - 7 months, Meditation Research Institute, Rishikesh, EEG data recording.**
- 2009 **USA - 2 months, Swartz Center for Computational Neuroscience, San Diego, EEG signal advanced analysis.**

Publications and Communications

- **Braboszcz, Claire** and Brandao-Farinelli Edith and Vuilleumier Patrik
Hypnotic analgesia reduces brain responses to pain seen in others
Scientific Report 2017
- **Braboszcz, Claire**
Pratiques mentales: vers une convergence stque de la mtation, de l'hypnose et de l'imagerie mentale
Intellectica 2017
- **Braboszcz, Claire** and Cahn, B. Rael and Levi, Yoni and Fernandez, Manuel and Delorme, Arnaud
Increased gamma brainwave amplitude compared to control in three different meditation traditions
Plos One 2017
- Grandchamp, Romain and **Braboszcz, Claire** and Delorme, Arnaud
Oculometric variations during mind wandering
Frontiers in Psychology 2014.
- **Braboszcz, Claire** and Cahn, B. Rael and Balakrishnan, Bhavani and Maturi, Raj K. and Grandchamp, Romain and Delorme, Arnaud
Plasticity of visual attention in Isha yoga meditation practitioners before and after a 3-month retreat
Frontiers in Psychology 2013.
- **Braboszcz, C.** and Delorme, A.
Lost in thoughts: neural markers of low alertness during mind wandering
Neuroimage 2011.

International peer-reviewed conference article

- Lemaignan, Séverin and Fink, Julia and **Braboszcz, Claire** and Dillenbourg, Pierre
The Cognitive Correlates of Anthropomorphism
2014 Human-Robot Interaction Conference, Workshop "HRI: a bridge between Robotics and Neuroscience" 2014.
- Grandchamp, Romain and **Braboszcz, Claire** and Makeig, Scott and Delorme, Arnaud
Stability of ICA decomposition across within-subject EEG datasets
Engineering in Medicine and Biology Society (EMBC), 2012 Annual International Conference of the IEEE 2012.
- Grandchamp, R. and **Braboszcz, C.** and Hupé, J.M. and Delorme, A.
Pupil dilation and blink rate increase during mind-wandering
34th European Conference on Vision Processing, Perception 40 2011.

Book chapters

- **Braboszcz, C.** and Hahusseau, S. and Delorme, A.
Meditation and Neuroscience: from basic research to clinical practice
in: *Handbook of Integrative Clinical Psychology, Psychiatry, and Behavioral Medicine: Perspectives, Practices, and Research* 2010.

Dissertation

- **Braboszcz, Claire**
Study of the electroencephalographic correlates of mind wandering and meditation
2012.

Communication

- **Braboszcz, Claire** and Brandao-Farinelli Edith and Vuilleumier Patrik **Influence of hypnotic analgesia on the perception of pain seen in others**, 10th Alpine Brain Imaging Meeting, 2015, Champéry, Switzerland
- **Braboszcz, Claire** and Cahn, B. Rael and Levi, Yoni and Fernandez, Manuel and Delorme, Arnaud **Increased gamma brainwave amplitude compared to control in three different meditation traditions**, Mind and Life 1st European Symposium, 2013, Berlin, Germany
- **Braboszcz, Claire** and Cahn, B. Rael and Levi, Yoni and Fernandez, Manuel and Delorme, Arnaud **Increased gamma brainwave amplitude compared to control in three different meditation traditions**, BACI Conference 2013, Geneva
- **Braboszcz, Claire** and Cahn, B. Rael and Balakrishnan, Bavani and Grandchamp Romain and Delorme, Arnaud **Is meditation improving attention ? A study on 82 Isha meditation practitioner following a 3 months retreat**, poster presentation , ECVF 2011, Toulouse, France
- Grandchamp, Romain and **Braboszcz, Claire** and Hupe, Jean-Michel, and Delorme, Arnaud **Pupil dilatation during mind wandering**, poster presentation , ECVF 2011, Toulouse, France
- **Braboszcz, Claire** and Delorme, Arnaud. **Lost in Thoughts: Neural markers of low alertness level during mind-wandering**, poster presentation , ICCNS 2009, Boston University, Boston

Teaching Experience and Student Supervision

Student Supervision

- 2013-2015 **Maria Shyriaeva**, *Master in Neuroscience*, The EEG correlates and phenomenology of mind wandering in the hypnotic state, University of Geneva, Switzerland.
- 2011 **Birgit Ramsauer and Corina Storz**, *Medicine students*, EEG theta activity in mind wandering and memorization, Max Planck Institute for Psychiatry and LMU, Munich, Germany.

Teaching

- 2016 **Invited Lecture**, *University of Plymouth, United Kingdom*.
Introduction to brain-computer interaction
- 2014 **Main Lecturer**, *University of Geneva, Switzerland*, 1 day.
EEGlab toolbox workshop, 12 participants
- 2013 **Main Lecturer**, *Linköping University, Linköping, Sweden*, 3 days.
EEGlab toolbox workshop, 15 participants
- 2012 **Lecturer**, *ISAE-Supaero, Toulouse, France*, 5 hours.
Introduction to EEG, lecture and neurofeedback tutorial
- 2010 and 2011 **Lecturer and helper at EEGlab Workshops** , *France and Finland*, 4 days.
EEGlab toolbox tutoring, 50 participants
- 2010 **Main lecturer for HBM Educational Course: the EEGlab toolbox**, *Human Brain Mapping, Barcelona, Spain*.
- 2008-2010 **Lecturer**, *School of Psychomotricity, Toulouse, France*, 41 hours, 35 students.
Physiology module

Technical Skills

Scientific Analysis and Development	MNE-Python, Matlab, EEGLab, R, SPM8, Psychopy, Psychtoolbox	Operative Systems	Linux
Neuroimaging	expert in EEG and fMRI recording and signal processing	Office tools	LateX, JabRef, Inkscape, Git

Additional Information

Scientific outreach activities

- 2016 **Public engagement and educational activity "What is EEG ? " within the University of Plymouth, .**
- 2013-2015 **Diverse collaborations with Communication and Knowledge transfer service of the Center for Affective Science (University of Geneva) , .**
- 2008–2010 **President of Toulouse Cognitive Science Student Association (InCOGnu),** Team management, creation of animations to popularize Cognitive Sciences towards a large audience.
- 2005–2010 **French National Cognitive Science Student Federation (FRESCO) ,** involved at diverse degrees (treasurer, executive committee member).

Additional Training

- 2016 **Consciousness, from theorie to practice, Neuroscience School of Advanced Studies, Bressanone, Italy, 8 days summer school.**
- 2013 **SPM8 Workshop, Zurich, Switzerland, 4 days.**
- june 2009 **EEGLab Workshop for advanced EEG analysis , Aspet, France, 3 days.**
- 2008-2011 **Training 'interviews for collection of first-person data', Paris, France, 40 hours.**

Scientific expert for

-International Journal of Psychophysiology, Journal of Cognitive Neuroscience, Brain and Cognition, Frontiers in Human Neuroscience, EMC Psychiatry, Constructivist Foundations

Languages

French	Native
English	Expert
Spanish	Novice