

Claire Braboszcz

Cognitive Neurosciences

31 years old
French

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Current research - Post-doctoral Project

Laboratory School of Psychology, University of Plymouth, UK
Thematic *EEG and rTMS study of vivid mental imagery formation*
Supervisor Pr. Giorgio Ganis
Keywords electroencephalographie, rTMS, mental imagery, introspection, first-person data, attention, oscillations, psychometry

Education

- 2013-2015 **Post-doctoral associate**, *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* Maternity leaves in 2011 (4 months), 2012-2013 (5 months) and 2015-2016 (6 months)

Grants and Fundings

- 2015 **2 years post-doctoral fellowship**, *Individual Marie Sklodowska-Curie European research grant*.
- 2013 **2 years post-doctoral fellowship**, *Fyssen Foundation and Marie Curie Co-Fund BRIDGE European research grant* .
- 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

International peer-reviewed journals

- **Braboszcz, Claire** and Brandao-Farinelli Edith and Vuilleumier Patrik
Influence of hypnotic analgesia on the perception of pain seen in others in preparation
- **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
under review
- 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- current **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

- 2014 **Main Lecturer**, *University of Geneva, Switzerland*, 1 day.
EEGlab toolbox workshop, 12 participants
- 2013 **Main Lecturer**, *Jyväskylä 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*, 39 hours, 35 students.
Teaching classes on motor learning skills, emotions

Technical Skills

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

Additional Information

Scientific associative activities and dissemination towards the general public

- 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

- 2013 **SPM8 Workshop**, Zurich, Switzerland, 4 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, EMC Psychiatry

Languages

French **Native**
English **Expert**
Spanish **Novice**

TOEFL IBT score 109/120 in 2007