

# Claire Braboszcz

Research Fellow  
Cognitive Neurosciences

33 years old  
French citizenship  
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Keywords **Electroencephalographie, Oscillations, Machine Learning, First-Person data, Consciousness**

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## Education and Research Activities

- 2018- **Senior Research Associate**, School of Psychological Science, University of Bristol, UK.
- 2016-2018 **EU Marie Sklodowska-Curie Research fellow**, *EEG decoding of mental imagery*, School of Psychology, University of Plymouth, UK.
- 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, Switzerland.
- 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: March-July 2011; November-April 2012/2013; September-April 2015/16

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## Grants

- 2015 **2 years research fellowship**, *Individual Marie Sklodowska-Curie European research grant (195 000 euros).*
- 2013 **2 years research fellowship**, *Fyssen Foundation (50 000 euros) and from FP7 Bridge Marie Curie co-fund (45 000 euros).*
- 2012 **End of PhD fellowship**, *French Foundation for Medical Research (18 000 euros).*
- 2011 **3 months fellowship**, *DAAD German office for academic exchange (3 000 euros).*
- 2008 **3 years PhD scholarship**, *French National Research Center (63 000 euros).*

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## Publications and Communications

### International peer-reviewed journals

- **Braboszcz C., Brandao-Farinelli E., Vuilleumier P., Hypnotic analgesia reduces brain responses to pain seen in others**, *Scientific Report*, 2017

- **Braboszcz C., Cahn B. R., Levi Y., Fernandez M., Delorme A., Increased gamma brainwave amplitude compared to control in three different meditation traditions,** *Plos One*, 2017
- Grandchamp R., **Braboszcz C., Delorme, A., Oculometric variations during mind wandering,** *Frontiers in Psychology*, 2014.
- **Braboszcz C., Cahn B. R., Balakrishnan B., Maturi R. K., Grandchamp R., Delorme, A., Plasticity of visual attention in Isha yoga meditation practitioners before and after a 3-month retreat,** *Frontiers in Psychology*, 2013.
- **Braboszcz C., Delorme A., Lost in thoughts: neural markers of low alertness during mind wandering,** *Neuroimage*, 2011.

### International peer-reviewed conference article

- Lemaignan S., Fink J., **Braboszcz C., Dillenburg P., The Cognitive Correlates of Anthropomorphism,** *2014 Human-Robot Interaction Conference, Workshop "HRI: a bridge between Robotics and Neuroscience"*, 2014.
- Grandchamp R., **Braboszcz C., Makeig S., Delorme A., 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., **Braboszcz C., Hupé J.M., Delorme A., Pupil dilation and blink rate increase during mind-wandering,** *34th European Conference on Vision Processing, Perception 40*, 2011.

### National peer-reviewed journals

- **Braboszcz C., Pratiques mentales: vers une convergence epistemique de la meditation, de l'hypnose et de l'imagerie mentale,** *Intellectica*, 2017

### Book chapters

- **Braboszcz C., Hahusseau S., 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 C., Study of the electroencephalographic correlates of mind wandering and meditation,** 2012.

### Selected Communication

- **Braboszcz C., Ganis G. Towards decoding of mental imagery,** International Conference for Cognitive Neuroscience, 2017, Amsterdam, the Netherlands
- **Braboszcz C., Brandao-Farinelli E., Vuilleumier P. Influence of hypnotic analgesia on the perception of pain seen in others,** 10th Alpine Brain Imaging Meeting, 2015, Champéry, Switzerland
- **Braboszcz C., Cahn B. R., Levi Y., Fernandez M., Delorme A., Increased gamma brainwave amplitude compared to control in three different meditation traditions,** Mind and Life 1st European Symposium, 2013, Berlin, Germany
- **Braboszcz C., Cahn B. R., Levi Y., Fernandez M., Delorme A., Increased gamma brainwave amplitude compared to control in three different meditation traditions,** BACI Conference 2013, Geneva

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## International Experience

- 2016-2018 **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.**

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## Teaching Experience and Student Supervision

### Teaching

- 2016, 2017 **Guest 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, University of Linkoping, Sweden, 3 days.**  
EEGlab toolbox workshop, 20 participants
- 2012 **Guest Lecture, Institut Supérieur de l'Aéronautique et de l'Espace, Toulouse, France, 5 hours.**  
Introduction to EEG, lecture and neurofeedback tutorial
- june 2011 **Lecturer, Aspet, France, 4 days.**  
EEGlab toolbox workshop, 40 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

### 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.**

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## Technical Skills and Spoken Languages

- Scientific Analysis and Development Python, Matlab, EEGlab, R, SPM8, Psychopy, Psychtoolbox, Git
- Neuroimaging expert in EEG and fMRI recording and signal processing

### Additional Training

- 2016 **Consciousness, from theory 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 on microphenomenology interviews for collection of first-person data, Paris, France, 40 hours.**

## Languages

French Native  
English Expert  
Spanish Novice

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## Scientific engagement and Dissemination

2017 **Co-organizer international workshop on Microphenomenology**, Plymouth Cognition Institute.

### Scientific expert for

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

### Main Outreach Actions

- 2017 **Mobile EEG demonstration**, Plymouth University.
- 2013-2015 **Diverse collaborations with Communication and Knowledge transfer service of the Center for Affective Science (University of Geneva)**.
- 2008-2010 **Executive Committee member, Science-Art Association, 'Les chemins Buissonniers'**, Organization of science-art animations for popular education.
- 2008-2010 **Head 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).