

## Élise MÉTÉREAU

27 years old - French citizenship

Cognitive Neuroscience Centre - UMR 5229 CNRS

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## PhD in Cognitive Neuroscience

### Research experience

- 2006 – 2011     **PhD thesis** – Cognitive Neuroscience Centre, CNRS, Lyon, France  
    Supervision: J-C Dreher  
    Title: "Brain networks involved in the processing of different rewards and punishments during pavlovian conditioning and in prosocial decision making by fMRI."
- 2005 – 2006     **Master thesis (2<sup>nd</sup> year)** – Cognitive Neuroscience Centre, CNRS, Lyon, France  
    Supervision: J-C Dreher  
    Title: "Effect of subliminal semantic priming on task switching."
- 2005            **Master thesis (1<sup>st</sup> year)** – Cognitive Neuroscience Centre, CNRS, Lyon, France  
    Supervision: J-C Dreher  
    Title: "Different contributions of the human frontopolar cortex and dorsolateral prefrontal cortex to task switching: a lesion study"

### Teaching experience

- 2010            **Teaching assistant** in Cognitive Neuroscience: "Decision making and motivation"
- 2007            **Teaching assistant** in Information Technology: "Microsoft Excel software"

### Education

- 2006 – 2011     **PhD in Cognitives Sciences** - Cognitive Neuroscience Centre, Lyon, France
- 2006            **MSc in Cognitives Sciences** - University Lumière Lyon2 (69), France
- 2001 – 2004     **BSc in Biology and Cognitives Sciences.** La Rochelle and Lyon Universities, France
- 2001            **Scientific Baccalaureat (e.g. A-levels)** - Lycee Pilote Innovant, Futuroscope, France

### Publications

- Metereau E.** & Dreher J-C. *Cerebral correlates of salient prediction error for different rewards and punishments.* Under Review
- Metereau E.**, Butera L., VILLEVAL M.C. & Dreher J-C. *Effects of image motivation and social norms on the neural correlates of prosocial behavior.* In preparation
- Prevost C., Pessiglione M., **Metereau E.**, Clery-Melin M-L, Dreher J-C. *Distinct valuation subsystems in the human brain for effort and delay decision costs.* Journal of Neuroscience, 30(42):14080-90, 2010
- Thomas J., **Metereau E.**, Pugeat M., Dechaud H. & Dreher J-C. *Hormonal replacement Therapy modulates the reward system in early post-menopausal women.* In preparation
- Sescousse G., Domenech P., Barbalat G., **Metereau E.** & Dreher J-C. *Neural correlates of the gambler's fallacy bias in a roulette game.* In preparation

## Oral and Poster communications

- June 2010      **Poster** - **Metereau E.**, Butera L., Villevall M.C. & Dreher J-C (2010). *Effects of image motivation and social norms on the neural correlates of prosocial behaviour*. 16th annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
- November 2008      **Talk** - **Metereau E.** & Dreher J-C (2008). *Neural responses underlying predictive learning of different types of rewards and punishments*. 38th annual meeting of the Society for Neuroscience, Washington DC.
- June 2008      **Poster** - **Metereau E.** & Dreher J-C (2008). *Comparing brain networks involved in processing different nature of positive and negative reinforcements in uncertain situations*. 14th annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia.

## Fellowships and awards

- June 2008      HBM 2008 Travel Award
- 2006 – 2009      French Research Ministry PhD fellowship
- 2005 – 2006      French Education Ministry MSc fellowship

## Student supervision

- 2009      Clément Caudal – BSc medicine: Effect of social approval on charitable donation, a behavioral study.
- 2008 – 2010      Tutorials on the basics of fMRI analysis with SPM software (6 students)  
Tutorials on the use of Matlab scripts for SMP5 and SMP8 (8 students)

## Skills

- Languages      **French** (mother tongue) and **English**
- Research      fMRI data analyses: **SPM5**, **SPM8** and **MarsBar**, **ArtRepair**, **FieldMap**, **Anatomy**, **WFU PickAtlas** toolboxes.  
Statistics: **Matlab**, **Stata** (econometrics models), **Statistica**  
Experimental task design and programming: **Presentation software** and **Expe6**  
Physiological data analyses: Biopac system recording package for skin Conductance Responses and Heart Rate Variability.  
Graphics: **Inkscape** (equivalent to Adobe Illustrator) and **Matlab figures**  
Bibliographic references management: **Endnote** (RIS format), **JabRef** (BibTeX format), and **Zotero**.
- Computer      Operating System: **Windows**, **Linux** & **Mac OS**  
Office software: **Word**, **Excel**, **Power Point**  
Programming: **Html**, **Pascal**, **Python**, **Matlab**

## Personal activities

- Associations      **Vice president of Fresco** : French federation of students and young researchers in Cognitives Sciences (2007 - 2009)
- Sport      Hiking, Soccer
- Music      Accordion, Piano