



Institut national  
de la santé et de la recherche médicale



FONDATION HUGOT DU COLLÈGE DE FRANCE  
11, RUE DE L'UNIVERSITÉ, 75007 PARIS

**24<sup>th</sup> Attention and Performance Symposium on  
“Space, Time and Number”  
CALL FOR APPLICANTS**

The 24<sup>th</sup> International Attention and Performance Symposium on “Space, Time & Number” is calling for a **limited number of Postdocs, advanced Graduate Students and confirmed young researchers (for instance newly appointed assistant professors)** who meet their criteria for acceptance at the meeting. All expenses will be paid.

DATE : July 6 to July 10, 2010

LOCATION : Abbaye des Vaux de Cernay, France (<http://www.unicog.org>)

ORGANISERS :

Elizabeth Brannon (Duke University)  
Stanislas Dehaene (INSERM and Collège de France)

SPONSORS: Fondation Bettencourt-Schueller, (Ecole des Neurosciences Paris/Ile de France (ENP), European Society for Cognitive Psychology (ESCOP), Fondation HUGO, Fondation IPSEN, McDonnell Foundation (Grants to Elisabeth Brannon and Stanislas Dehaene)

#### OVERVIEW

Understanding how representations of space, time and number are encoded in brain circuitry has become a fundamental issue for neuroscience. Furthermore, how these representations differ across cultures and are changed by education is a key question that has a great many practical implications for psychology and neuropsychology. The topic is ripe for an interdisciplinary meeting with contributions from a variety of disciplines, from basic neuroscience to psychology, developmental science, neuroimaging, neuropsychology and theoretical biology.

PRELIMINARY PROGRAM (all speakers are confirmed, titles are tentative)

**Association Lecture**

Randy Gallistel (USA): Laws that govern space, time and number in humans and other animals

**Human perception and psychophysics**

David Eagleman (USA): Human time perception

Patrick Cavanagh (France): Illusory misperceptions of space, time and number

David Burr (Italy): Cerebral relativity theory? Illusions of space and time

Jennifer Coull (France): Attention to time and its brain mechanisms

**Developmental foundations**

Lisa Feigenson (USA): Interactions between memory and number representation over development

Stella Lourenco (USA): Spatial cognitive development

Brian Butterworth (UK): Numerical development and dyscalculia

Véronique Izard (France): Intuitions of number and space prior to education

**Space, time and number in animals**

Liz Brannon (USA): Adding, ordering, and cross-modally matching number in primates.

Nicola Clayton (UK): Memory for space -- food caching in scrub jays

Giorgio Vallortigara (Italy): The origins of the sense of space in animals

**Neural mechanisms and models**

Edvard Moser (Norway): The neural encoding of spatial coordinate systems

Andreas Nieder (Germany): The neural code for number

Dean Buonomano (USA): Models of time perception: Encoding time in neural network states

Ehud Zohary (Israel): Space coding in ventral and dorsal visual areas

**Cross-modal interactions and cross-dimensional metaphors**

Yves Rossetti (France): Neglect in the numerical, spatial and time domains

Manuela Piazza (Italy): Cortical representation of symbolic and non-symbolic information

Wim Fias (Netherlands): The SNARC effect as a marker of number-space interactions

Roy Cohen-Kadosh (UK): Synesthesia: Cross-dimensional interactions in the human brain?

**Linguistic and cultural dimensions**

Elizabeth Spelke (USA): How language transforms early representations of space and number

Robert Siegler (USA): Education and the development of number-space mappings

Lera Boroditsky (USA): Using space to think about time

Daniel Haun (Netherlands): Comparative studies of hominid spatial cognition

**PARTICIPANTS**

The meeting will bring together 65 participants including contributors, observers and discussants in a broad variety of areas of cognitive psychology and neuroscience. We are now inviting advanced graduate students, post docs and young researchers (for instance newly appointed assistant professors) to apply for 12 slots that have been kept open.

**WHO MAY APPLY**

Applicants must be Post-docs, advanced PhD students or young researchers who have an excellent knowledge of written and spoken English. Successful applicants will be expected to have publications or submitted papers in the area. We will be especially attentive to submissions from developing or under-represented countries.

## HOW TO APPLY

Applications should be submitted to Susana Franck at [attperf@yahoo.fr](mailto:attperf@yahoo.fr)

### **Applications should contain:**

- A one-page **curriculum** vitae including a list of publications
- A one-page **motivation letter**, with a paragraph outlining a proposed poster
- The email address of one or two researchers who can recommend the candidate

DEADLINE FOR APPLICATIONS : December 30, 2009