

# CURRICULUM VITAE

## Vera Ferrari, PhD

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### Educational and academic degrees

#### September 2010-present

Two year post-doctoral fellowship at the University of Parma, Department of Psychology, supervisor Prof. Nicola Bruno.

#### 2008-2010

Two years post-doctoral fellowship at the University of Bologna, Department of Psychology, supervisor Prof. Maurizio Codispoti.

#### 2006-2008

Two years post-doctoral fellowship at the Center for the Study of Emotion and Attention (CSEA-NIMH, University of Florida), supervisor Prof. MM. Bradley

#### May 2006

Ph.D. in Physiology at the University of Bologna, Department of Human and General Physiology. Doctoral thesis: Macro and Micro structure of sleep in hypertension.

#### 2003-2005

Three years Ph.D. position at the University of Bologna, Department of Human and General Physiology, supervisor Prof. Carlo Franzini.

#### 2003

Passed the state examination to qualify as a practicing psychologist.

#### 2001-2002

One year post-baccalaureate research training at the Laboratory of Psychophysiology University of Padova, Department of Psychology, supervisors Prof. Daniela Palomba, Prof. Maurizio Codispoti.

#### 2001

Graduated in Psychology from the University of Padova, Faculty of Psychology.

### Research Interests

Novelty and significance in the processing of emotional natural scenes  
Memory and emotion  
Categorization and attention  
Aging and emotion

Emotion and multisensory integration

**Ad-hoc reviewer for the following scientific journals:**

Psychophysiology  
Journal of Cognitive Neuroscience  
Biological Psychology  
International Journal of Psychophysiology  
Social Cognitive and Affective Neuroscience  
Neuropsychobiology  
Plos One  
Cognitive, Affective, and Behavioral Neuroscience

**Consulting expert:**

The Romanian National Research Council (2011).

**Scientific Awards**

2007 Award “Igino Fagioli” for the best PhD thesis on sleep research from the Italian Society for Sleep Research (SIRS).

**Professional Affiliations**

Society for Psychophysiological Research

**Invited Addresses**

2005 “Macro- and Micro-structure of sleep in hypertension”. Department of Human and General Physiology, University of Bologna.

2007 “Habituation and Attention”. NIMH Center for the Study of Emotion and Attention (CSEA), Gainesville, University of Florida.

**Technical skills**

Software

- MS-DOS, MAC OS, WINDOWS
- Data analysis: SPSS, STATISTICA, JMP SAS, Visual Basic for Application (VBA Microsoft), MATLAB.
- Psychology Software Tools: E-PRIME (Psychology Software Tools), PRESENTATION.
- Electrophysiological software: NEUROSCAN, GEODESIC EEG SYSTEM, BIOSEMI

## **Publications** (chronological order)

H-index : 8

Total number of citations: 279

(source: Google Scholar, 12/7/2011)

### *Articles*

1. Silvani A, Asti V, Bojic T, Ferrari V, Franzini C, Lenzi P, Grant DA, Walker AM, Zoccoli G. (2005). Sleep-dependent changes in the coupling between heart period and arterial pressure in newborn lambs. *Pediatric Research*, 57:108-14.
2. Silvani A, Asti V, Berteotti C, Bojic T, Cianci T, Ferrari V, Franzini C, Lenzi P, Zoccoli G. (2005). Sleep-related brain activation does not increase the permeability of the blood-brain barrier to glucose. *Journal of Cerebral Blood Flow and Metabolism*, 25:990-7.
3. Silvani A, Asti V, Berteotti C, Ferrari V, Franzini C, Lenzi P, Wild J, Grant DA, Walker AM, Zoccoli G. (2006). Sleep-dependent changes in cerebral oxygen consumption in newborn lambs. *Journal of Sleep Research*, 15:206-11.
4. Codispoti M, Ferrari V, Bradley MM. (2006). Repetitive picture processing: autonomic and cortical correlates. *Brain Research*, 1068:213-20.
5. Codispoti M, Ferrari V, Junghofer M, Schupp HT. (2006). The categorization of natural scenes: brain attention networks revealed by dense sensor ERPs. *Neuroimage*. 32:583-91.
6. Codispoti M, Ferrari V, De Cesarei A, Cardinale R. (2006). Implicit and explicit categorization of natural scenes. *Progress in Brain Research* 156:53-65.
7. Codispoti M, Ferrari V, Bradley MM. (2007). Repetition and ERPs: Distinguishing early and late processes in affective picture perception. *Journal of Cognitive Neuroscience*, 19:577-586.
8. Berteotti C, Asti V, Ferrari V, Franzini C, Lenzi P, Zoccoli G, Silvani A. (2007). Central and baroreflex control of heart period during the wake-sleep cycle in spontaneously hypertensive rats. *American Journal of Physiology: Regulatory, Integrative and Comparative*, 293: 293-8.
9. Ferrari V, Codispoti M, Cardinale R, Bradley MM.(2008). Directed and Motivated Attention during Processing of Natural Scenes. *Journal of Cognitive Neuroscience*, 20, 1753-61.
10. Li R, Principe JC, Bradley M, Ferrari V. (2009). A spatiotemporal filtering methodology for single-trial ERP component estimation. *IEEE Transactions on Biomedical Engineering*, 56(1):83-92.

11. Ferrari V, Bradley MM, Codispoti M, Lang PJ. (2009). Detecting Novelty and Significance. *Journal of Cognitive Neuroscience*, 22, 404-411.
12. Ferrari V, Bradley MM, Codispoti M, Lang PJ. (2011). Repetitive exposure: Brain and reflex measures of emotion and attention. *Psychophysiology*, 48, 515-522.
13. Codispoti M, De Cesarei A, Ferrari V. The influence of color on emotional perception of natural scenes. In press

### *Submitted Manuscripts*

14. Ferrari V, Bradley MM, Karlsson M, Codispoti M, Lang PJ. Repetition, memory and brain potentials when recognizing natural scenes: Task and emotion differences.
15. Bruno N, Ferrari V, Bertamini M. Pointing to Weber's Law with Müller-Lyer's illusion.
16. Ferrari V, Bruno N. Natural cross-modal mappings with emotional natural scenes: speeded classifications reveal an unexpected asymmetry between auditory and visual tasks.

### *Abstracts and Conference Presentations*

1. Codispoti M., Ferrari V., Sarlo M., Palomba D. (2002). ERP topography during categorization of natural scenes. *Psychophysiology*, 43, S77.
2. Codispoti M., Ferrari V., Sarlo M., Palomba D.(2002). L'evoluzione spaziotemporale dei potenziali evento-relati in un compito di categorizzazione di immagini naturali. Congresso Nazionale della Associazione Italiana di Psicologia, sezione di Psicologia Sperimentale, Rimini. pp. 341-344.
3. Angrilli A., Ferrari V.(2002). Plasticità corticale del linguaggio in pazienti afasici: replica ed estensione dei risultati ottenuti mediante mappatura dei potenziali corticali lenti. Congresso Nazionale della Associazione Italiana di Psicologia, sezione di Psicologia Sperimentale, Rimini. pp. 121-122.
4. Silvani A, Asti V, Bojic T, Cianci T, Ferrari V, Franzini C, Lenzi P, Zoccoli G (2003). Regolazione della concentrazione extracellulare di glucosio nell'encefalo in sonno attivo. Atti della VIII Riunione Annuale della Società Italiana di Ricerca sul Sonno, Pisa.
5. Asti V, Bojic T, Ferrari V, Franzini C, Grant DA, Lenzi P, Silvani A, Walker AM, Wild J, Zoccoli G (2003). La correlazione fra periodo cardiaco e pressione arteriosa cambia durante il sonno nell'agnello neonato. Atti della VIII Riunione Annuale della Società Italiana di Ricerca sul Sonno, Pisa.
6. Ferrari V, Asti V, Bojic T, Cianci T, Franzini C, Lenzi P, Lodi CA, Silvani A, Zoccoli G (2003). Effetto della stimolazione acustica sulla regolazione cardiovascolare durante il ciclo veglia-sonno. Atti della VIII Riunione Annuale della Società Italiana di Ricerca sul Sonno, Pisa.

7. Silvani A, Asti V, Bojic T, Cianci T, Ferrari V, Franzini C, Lenzi P, Zoccoli G (2003). Effetti della stimolazione acustica sulla regolazione del ritmo cardiaco durante il ciclo veglia-sonno. Atti del Congresso della Società Italiana di Neuroscienze, Pisa.
8. Bojic T, Asti V, Cianci T, Ferrari V, Franzini C, Lodi CA, Silvani A, Zoccoli G, Lenzi P (2003). Heart rhythm and arterial pressure evoked responses to acoustic stimulation during sleep. 54° Congresso Nazionale della Società Italiana di Fisiologia.
9. Asti V., Bojic T., Ferrari V., Franzini C., Lenzi P., Grant D.A., Silvani A., Walker A.M., and Zoccoli G. (2004) Central and baroreflex control of heart period during phasic hypertensive events in rem sleep. 17th Congress of the European Sleep Research Society, Praga.
10. Ferrari V., Asti V., Bojic T., Franzini C., Grant D.A., Lenzi P., Silvani A., Walker A.M., and Zoccoli G. (2004) Cerebral oxygen metabolism during the wake-sleep cycle in newborn lambs. 17th Congress of the European Sleep Research Society, Praga.
11. Silvani A., Asti V., Bojic T., Ferrari V., Franzini C., Grant D.A., Lenzi P., Walker A.M., and Zoccoli G. (2004) Sleep modifies the coupling between heart period and arterial pressure in newborn lambs. 17th Congress of the European Sleep Research Society, Praga.
12. Ferrari V., Asti V, Berteotti C, Silvani, Zoccoli G, Franzini C (2005). Alterazioni della macrostruttura del sonno in un modello sperimentale dell'ipertensione essenziale. Atti della X Riunione Annuale della Società Italiana di Ricerca sul Sonno, Roma.
13. Cardinale R, Ferrari V, De Cesarei A., Biondi S, Codispoti M (2005). Implicit and explicit categorization of natural scenes. *Psychophysiology*, 42, S42.
14. Ferrari V, Codispoti M, Bradley MM (2005). Not just the same old thing: cortical and autonomic measure of affective habituation. *Psychophysiology*, 42, S55.
15. Berteotti C., Asti V., Ferrari V, Franzini C., Lenzi P., Zoccoli G, Silvani A. (2006) Alterations in REM sleep architecture in spontaneously hypertensive rats. 18th Congress of the European Sleep Research Society, *Journal of Sleep Research*, s1: 228.
16. Zoccoli G, Asti V, Berteotti C, Ferrari V, Franzini C, Lenzi P, Silvani A (2006). Homeostatic and allostatic cardiac control during sleep in spontaneously hypertensive rats. 18th Congress of the European Sleep Research Society. *Journal of Sleep Research*, s1:60-61.
17. Berteotti C, Asti V, Ferrari V, Franzini C, Lenzi P, Silvani A, Zoccoli G. (2006) Parossismi ipertensivi durante il sonno REM in ratti geneticamente ma non fenotipicamente ipertesi. Atti della XI Riunione Annuale della Società Italiana di Ricerca sul Sonno, Milano.
18. Ferrari V, Codispoti M, Bradley MM, Lang JL. (2006). Perceptual fluency speeds up affective modulation of ERPs. *Psychophysiology*, 43, S38.
19. Li R., Principe JC, Bradley MM, Ferrari V. (2007). Single-trial ERP estimation based on spatio-temporal filtering. 3rd International IEEE EMBS Conference on Neural Engineering of the IEEE Engineering in Medicine and Biology Society, Kohala Coast, Hawaii, USA.

20. Ferrari V, Bradley MM, Codispoti M, Lang JL. (2007). Dissociating stimulus novelty and information value. *Psychophysiology*, 44, S27.
21. Li R, Principe JC, Bradley M, Ferrari V. (2007). Robust single-trial ERP estimation based on spatiotemporal filtering. *Conf Proc IEEE Eng Med Biol Soc*, 5206-9.
- 22 Ferrari V, Bradley MM, Codispoti M, Lang JL. (2007). How picture repetition affects attention and emotion. *Psychophysiology*, 44, S81.
23. Bradley MM, Ferrari V, Karlsson M, Codispoti M, Lang JL (2008). Repetition and memory: Recognition performance and event-related potentials, *Psychophysiology*, 45, S95.
24. Codispoti M, Ferrari V, De Cesarei A. (2009). The influence of color on the perception of briefly presented emotional scenes. *Psychophysiology*, 46, S97.
25. Ferrari V, Bradley MM, Karlsson M, Codispoti M, Lang JL. (2009). Old-New ERP effect during explicit and implicit recognition of affective pictures. *Psychophysiology*, 46, S106.
26. Ferrari V, Bruno N, Bertamini M. Pointing to Weber's Law with Müller-Lyer's illusion. The Trieste Symposium on Perception and Cognition, 2011.