ADRIAN R. WILLOUGHBY

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WORK EXPERIENCE

10/2008-present **Research Fellow, School of Sport and Exercise Sciences, University of Birmingham**

- Supervisor: Chris Ring, Ph.D.
- Collaborating on three different projects
  - The effects of hypertension and cardiac cycle on cognitive and electrophysiological processing (British Heart Foundation supported project)
  - Emotion and anti-social behavior in sport (Economic and Social Research Council supported project)
  - Electrophysiological correlates of expert and novice golf putting performance under pressure
- Supervising an undergraduate research dissertation
- Training and supervising both graduate and undergraduate students in EEG methodology and analysis

09/2007-12/2007 **Part-time Lecturer, Department of Psychology, University of California, Berkeley**

- Taught Introduction to Biopsychology to a class of 150 students
- Supervised Graduate Student Instructors

01/2007-09/2007 **Part-time Lecturer, Department of Psychology, University of California, Davis**

- Taught Cognitive Neuroscience and Introduction to Cognitive Psychology to classes of 50 students

01/2005-01/2007 **Post-doctoral Researcher, Cognitive Neuropsychology and Electrophysiology Lab, Veteran Affairs Northern California Health Care System (VANCHCS) and University of California, Davis**

- Supervisor: Diane Swick, Ph.D.
- Designed and conducted research projects investigating the effects of emotion and attention on behavior and electrophysiological responses
- Responsible for all aspects of research including experimental design, collection and statistical analysis of behavioral and electrophysiological data, and presentation of results
- Collaborated on National Science Foundation and National Institute of Mental Health grant writing
- Presented research at both academic meetings (Cognitive Neuroscience Society, Evoked Potentials International Conference) and to interdisciplinary audiences (University of Michigan, VANCHCS)

EDUCATION

09/1999-12/2004 **Ph.D. Cognitive Psychology**
University of Michigan

- Advisor: William J. Gehring, Ph.D.
- Awarded Rackham Predoctoral Fellowship, 2002-2003

Graduate Student Researcher – Human Brain Electrophysiology Lab

- Designed and conducted research projects investigating the change in behavior and electrophysiological responses over the course of learning
- Collaborated on neuropsychological research studying the capabilities of a patient with right frontal brain damage
- Trained and supervised research assistants

Graduate Student Instructor

- Responsible for classroom instruction of 30 students for Introduction to Psychology as a Natural Science – Mind and Brain, Advanced Laboratory in Cognitive Psychology (research methods) and Introduction to Cognitive Psychology

08/1995-06/1998 **B.A. (Hons) Experimental Psychology**
Wadham College
University of Oxford

PROFESSIONAL AND ADMINISTRATIVE EXPERIENCE

Ad hoc reviewer for *Neuropsychologia, Psychophysiology, Journal of Abnormal Psychology, Journal of Cognitive Neuroscience* and *Applied Cognitive Psychology*
Cognition and Perception Forum Committee (2000-2001), University of Michigan
Cognition and Perception Recruitment Committee (2001-2002), University of Michigan

PUBLICATIONS

Gehring, W.J. and Willoughby, A.R. (2002). The medial frontal cortex and the rapid processing of monetary gains and losses. *Science, 295*, 2279-2282.

Gehring, W.J. and Willoughby, A.R. (2004). Are all medial frontal negativities created equal? Toward a richer empirical basis for theories of action monitoring. In M. Ullsperger and M. Falkenstein (Eds.), *Errors, Conflicts, and the Brain. Current Opinions on Performance Monitoring* (pp 14-20). Leipzig: Max Planck Institute for Cognition and Neurosciences.

MEETING PAPERS AND POSTERS

Willoughby, A.R. and Gehring, W.J. *The contribution of conflict monitoring and evaluative processing to medial frontal action monitoring: Evidence from the error-related negativity*. Poster presented at the 9th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA (April, 2002).

Willoughby, A.R. and Gehring, W.J. *The error-related negativity as an electrophysiological correlate of learning.* Poster presented at Evoked Potentials International Conference (EPIC) XIV, Leipzig, Germany (March, 2004).

Willoughby, A.R. and Gehring, W.J. *The error-related negativity elicited by error feedback in a probability learning task.* Poster presented at the 11th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA (April, 2004).

Willoughby, A.R. and Swick, D. *The effects of stimulus identification and categorization on the error-related and feedback negativities.* Poster presented at the 13th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA (April, 2006).

Willoughby, A.R. and Swick, D. *Does multi-tasking affect action monitoring?* Poster presented at the 14th annual meeting of the Cognitive Neuroscience Society, New York, NY (May, 2007).

COLLOQUIUM PRESENTATIONS

Willoughby, A.R. *The functional significance of the error-related negativity.* The University of Michigan Cognition and Perception Forum Series, Ann Arbor, MI (February, 2002).

Willoughby, A.R. *The error-related negativity and association learning.* The University of Michigan Cognition and Perception Forum Series, Ann Arbor, MI (October, 2003).

Willoughby, A.R. *What can we learn about the error-related negativity from psychological disorders?* Neuropsychology Brown Bag Lunch, Martinez, CA (October, 2005).

REFERENCES

Available on request.