Bridging the Gap: Contemporary Issues in Memory and Language Research

IRTG Seminar (WS 2014/15)

INSTRUCTORS

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DATES

- Preliminary discussion of the contents of the seminar and dissemination of topics for presentations of PhD students:
  - Monday, July 21, 13:00-14.00h. Venue: room 1.32 in Bldg. A2 4

- Workshop: Venue: room 2.16 (SRIIa) in Bldg. A2 4
  - Tuesday, October 7, 2014. 9-12h and 14-17h
  - Wednesday, October 8, 2014. 9 - 12 h and 14-17 h

CONTENT

The prevailing view that memory and language are encapsulated systems that operate independently has been challenged by neuropsychological patient data and by recent insights in the functional architecture of the brain. In fact it has been shown that brain circuits that support language functions are also recruited by working memory, declarative and procedural memories. In this seminar we will discuss studies that use variable methods (neuropsychological patient studies, brain imaging and EEG/ERP) and shed new light on our understanding of language and memory functions and their interface. Special foci will be on the roles of declarative memory and working memory during language use, the distinction between semantic and episodic memory, and the relationship between episodic memory, imagery and future thinking.
LANGUAGE AND WORKING MEMORY

(1) Language and Working Memory I: Dissociable neural networks
Makuuchi et al. (2009); Fiebach et al. (2006); Friederici et al. 1998)

(2) Language and Working Memory II: Second language acquisition and WM training
Opitz et al. (2014); Liu et al. 2008; Deng et al. (2008)

LANGUAGE AND DECLARATIVE MEMORY

(3) Declarative Memory contributions to Language I: Amnesia revisited
MacKay et al. (1998); Schmolck et al (2000); Konkel et al. (2008); Meyer et al. (2005)

(4) The declarative / procedural model: The contribution of memory circuits to language
Ullman (2004; 2001)

(5) Declarative Memory contributions to Language II: The Hippocampus and relational binding
Duff & Brown-Schmidt (2012); Gupta (2011)

SEMANTIC VS EPISODIC MEMORY

(6) The Episodic / Semantic distinction
Tulving (1972; 1983); McKoon, Ratcliff & Dell (1986); Tulving & Markowitsch (1998)

(7) Finding meaning in the N400 and P600
Kutas & Hillyard (1980); Kutas & Federmeier (2011); Kuperberg (2007)

(8) Semantic Memory and World Knowledge: From spreading activation to prediction errors
Baddeley et al. (2009); Kap 6 (2009); Lau et al. (2008); Farah & McClelland (1991)

(9) Conceptual Priming and episodic familiarity I: The FN400 vs N400 issue
Olichney et al. (2000); Bridger et al. (2012); Voss & Federmeyer (2011)

(10) Conceptual Priming and episodic familiarity II: More than a feeling?
Voss et al. 2012 / Bridger et al. 2014

EPISODIC MEMORY

(11) A single process is not enough: Dual process models of recognition memory
Yonelinas et al. (2010); Rugg & Curan (2007); Bridger et al (2014); Addante et al (2012)

(12) Episodic Memory and future thinking
Schacter & Addis (2007); Maguire & Mullally (2013); Race, Keane & Verfaellie (2011)
BIBLIOGRAPHY

Baddeley, Eysenck & Anderson. Memory. Kap 6
Bridger et al (2012). Neuroimage
Bridger et al. (2014) Neuropsychologia
Deng, Booth el al. (2008). Neuropsychologia
Duff & Brown-Schmidt (2012). Frontiers in Human Neuroscience
Fiebach et al. (2006). Neuron
Friederici et al. 1998). Biological Psychology
Kuperberg (2007). Brain Research
Kutas & Hillyard (1980) Science
Liu, Zhang et al. (2008). Neuroimage
Maguire & Mullally (2013). JEP: General
Makuuchi et.al. (2009). Proceedings of the National Academy of Sciences
Meyer, Mecklinger et al. (2005). Hippocampus
Olichney et al (2000) Brain
Opitz, Schneiders, Krick & Mecklinger (2014). Neuropsychologia
Voss & Federmeier (2011). Psychophysiology
Yonelinas et al. (2010). Hippocampus