

An Introduction to Language and Linguistics
Additional Suggested Reading – Chapter 7

Language and the brain - Michael T. Ullman

Animal communication and language evolution

Christiansen, M. H., & Kirby, S. (Eds.) (2003) *Language Evolution*, Oxford: Oxford University Press.

Harley, T. (2001) *The Psychology of Language: From Data to Theory* (2nd ed.), New York: Psychology Press.

Hauser, M. D. (1996) *The Evolution of Communication*, Cambridge, MA: MIT Press.

Hauser, M. D., Chomsky, N., & Fitch, W. T. (2002) ‘The faculty of language: what is it, who has it, and how did it evolve?’ *Science*, 298(5598), 1569-1579.

Brain bases of language in the developing child

Mehler, J., & Christophe, A. (2000) ‘Acquisition of languages: infant and adult data,’ in M. S. Gazzaniga (Ed.), *The New Cognitive Neurosciences* (pp. 897-908), Cambridge, MA: MIT Press.

Neville, H. J., & Bavelier, D. (2000) ‘Specificity and plasticity in neurocognitive development in humans,’ in M. S. Gazzaniga (Ed.), *The New Cognitive Neurosciences* (pp. 83-98), Cambridge, MA: MIT Press.

Oberecker, R., Friedrich, M., & Friederici, A. D. (Submitted). ‘Neural correlates of syntactic processing in two-year-olds,’ *Journal of Cognitive Neuroscience*.

Stromswold, K. (2000) ‘The cognitive neuroscience of language acquisition,’ in M. S. Gazzaniga (Ed.), *The New Cognitive Neurosciences* (pp. 909-932), Cambridge, MA: MIT Press.

Biological basis of bilingualism and second language

Mehler, J., Sebastian-Galles, N., & Nespor, M. (2004) ‘Biological foundations of language acquisition: evidence from bilingualism,’ in M. S. Gazzaniga (Ed.), *The Cognitive Neurosciences* (Third ed., pp. 825-836). Cambridge, MA: MIT Press.

Paradis, M. (2004) *A Neurolinguistic Theory of Bilingualism*, Amsterdam, Netherlands: John Benjamins.

Ullman, M. T. (2001a) ‘The neural basis of lexicon and grammar in first and second language: the declarative/procedural model,’ *Bilingualism: Language and Cognition*, 4(1), 105-122.

Ullman, M. T. (2005) ‘A Cognitive Neuroscience Perspective on Second Language

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Acquisition: The Declarative/Procedural Model,’ in C. Sanz (Ed.), *Mind and Context in Adult Second Language Acquisition: Methods, Theory and Practice* (pp. 141-178), Washington, DC: Georgetown University Press.

Brain bases of prosody

Baum, S. R., & Pell, M. D. (1999) ‘The neural bases of prosody: Insights from lesion studies and neuroimaging.’ *Aphasiology*, 13(8), 581-608.

Brain bases of compositional semantics

Pinango, M. M., & Zurif, E. B. (1999) ‘Semantic composition: Processing parameters and neuroanatomical considerations.’ in R. Bastiaanse & Y. Grodzinsky (Eds.), *Grammatical Disorders in Aphasia: A Neurolinguistic Perspective*, London: Whurr.

Pinango, M. M., & Zurif, E. B. (2001) ‘Semantic operations in aphasic comprehension: Implications for the cortical organization of language,’ *Brain and Language*, 79(2), 297-308.

Shao, J., & Neville, H. (1998) ‘Analyzing semantic processing using event-related potentials,’ *Newsletter for the Center for Research in Language*, 11(5), 3-20.

Steinhauer, K., Portner, P., Walenski, M., & Ullman, M. T. (2003) ‘Comparing unlicensed Negative Polarity Items and other linguistic violations: An ERP study,’ in *Proceedings of the Sixteenth Annual CUNY Conference on Human Sentence Processing* (pp. 64), Cambridge, MA.

Other topics

Buckner, R. L., Koutstaal, W., Schacter, D. L., Dale, A. M., Rotte, M., & Rosen, B. R. (1998) ‘Functional-anatomic study of episodic retrieval. II. Selective averaging of event-related fMRI trials to test the retrieval success hypothesis,’ *NeuroImage*, 7(3), 163-175.

Desmond, J. E., Gabrieli, J. D. E., & Glover, G. H. (1998) ‘Dissociation of frontal and cerebellar activity in a cognitive task: Evidence for a distinction between selection and search,’ *NeuroImage*, 7(4), 368-376.

Friederici, A. D. (2002) ‘Towards a neural basis of auditory sentence processing,’ *Trends in Cognitive Sciences*, 6(2), 78-84.

Friederici, A. D. (2004) ‘The Neural Basis of Syntactic Processes,’ in M. S. Gazzaniga (Ed.), *The Cognitive Neurosciences* (Third ed., pp. 789-801), Cambridge, Massachusetts: The MIT Press.

Gabrieli, J. D., Poldrack, R. A., & Desmond, J. E. (1998) ‘The role of left prefrontal

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- cortex in language and memory,’ *Proceedings of the National Academy of Sciences USA*, 95(3), 906-913.
- Indefrey, P., & Cutler, A. (2004) ‘Prelexical and lexical processing in listening’ in M. S. Gazzaniga (Ed.), *The Cognitive Neurosciences* (Third ed., pp. 759-774), Cambridge, MA: MIT Press.
- Joanisse, M. F., & Seidenberg, M. S. (1999) ‘Impairments in verb morphology after brain injury: a connectionist model,’ *Proceedings of the National Academy of Sciences of the United States of America*, 96(13), 7592-7597.
- Martin, A., & Chao, L. L. (2001) ‘Semantic memory and the brain: structure and processes,’ *Current Opinion in Neurobiology*, 11(2), 194-201.
- Martin, R. C., Wu, D., Freedman, M., Jackson, E. F., & Lesch, M. (2003) ‘An event related fMRI investigation of phonological versus semantic short-term memory,’ *Neurolinguistics*, 16, 341-360.
- McClelland, J. L., & Patterson, K. (2002a) ‘Rules or connections in past-tense inflections: what does the evidence rule out?’ *Trends in Cognitive Sciences*, 6(11), 465-472.
- McClelland, J. L., & Patterson, K. (2002b) ‘Words or Rules cannot exploit the regularity in exceptions: Reply to Pinker and Ullman,’ *Trends in Cognitive Sciences*, 6(11), 464-465.
- McDermott, K. B., Petersen, S. E., Watson, J. M., & Ojemann, J. G. (2003) ‘A procedure for identifying regions preferentially activated by attention to semantic and phonological relations using functional magnetic resonance imaging,’ *Neuropsychologia*, 41, 293-303.
- Miozzo, M. (2003) ‘On the processing of regular and irregular forms of verbs and nouns: Evidence from neuropsychology,’ *Cognition*, 87, 101-127.
- Pinker, S., & Ullman, M. T. (2002a) ‘Combination and structure, not gradedness, is the issue,’ *Trends in Cognitive Sciences*, 6(11), 472-474.
- Pinker, S., & Ullman, M. T. (2002b) ‘The past and future of the past tense,’ *Trends in Cognitive Sciences*, 6(11), 456-463.
- Scott, S. K., & Wise, R. J. S. (2004) ‘The functional neuroanatomy of prelexical processing in speech perception,’ *Cognition*, 92(1-2), 13-45.
- Thompson-Schill, S. L., D'Esposito, M., Aguirre, G. K., & Farah, M. J. (1997) ‘Role of left inferior prefrontal cortex in retrieval of semantic knowledge: A reevaluation’ *Proceedings of the National Academy of Science USA*, 94(26), 14792-14797.

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Additional Suggested Reading – Chapter 7

- Tyler, L. K. (2004) ‘Deficits for semantics and the irregular past tense: a causal relationship?’ *Journal of Cognitive Neuroscience*, 16(7), 1159-1172.
- Ullman, M. T. (2001b) ‘A neurocognitive perspective on language: The declarative/procedural model’ *Nature Reviews Neuroscience*, 2, 717-726.
- Ullman, M. T. (2004) ‘Contributions of memory circuits to language: The declarative/procedural model’ *Cognition*, 92(1-2), 231-270.
- Ullman, M. T., Corkin, S., Coppola, M., Hickok, G., Growdon, J. H., Koroshetz, W. J., et al. (1997) ‘A Neural Dissociation within Language: Evidence that the mental dictionary is part of declarative memory, and that grammatical rules are processed by the procedural system,’ *Journal of Cognitive Neuroscience*, 9(2), 266-276.
- Ullman, M. T., & Pierpont, E. I. (2005) ‘Specific language impairment is not specific to language: the procedural deficit hypothesis,’ *Cortex*, 41(3), 399-433.