

Seminar: Allgemeine Psychologie, SS08 **(Dozentinnen: Kinder/Thaler/Heine)**

Allgemeines:

Basisliteratur

- Kapitel 1 bis 10 aus:
Psychological Science: The Mind, Brain, and Behavior – 2nd ed.
von Michael S. Gazzaniga, Todd F. Heatherton,
Verlag: Norton & Company, 2006
ISBN: 0393924971
- Kapitel 7, 9, 11 sowie 12 (Teil: “Goal oriented Behavior”) aus:
Cognitive Neuroscience – 2nd ed.
von Michael S. Gazzaniga, Richard B. Ivry, George R. Mangun,
Verlag: Norton & Company, 2002
ISBN: 0393977773

Struktur des Seminars:

- *Alle* Studenten bereiten zu jeder Sitzung das jeweils relevante Lehrbuchkapitel vor.
- Neben diesen allgemeinen Inhalten werden pro Sitzung zwei vertiefende Texte/Artikel in Form von Referaten aufbereitet.

Scheinvoraussetzung:

- regelmäßige Anwesenheit,
- aktive Teilnahme am Seminar:
 - Referat, d.h. ppt-Präsentation und Vortrag sowie
 - Vorbereitung der relevanten Lehrbucheinheiten

Klausur:

- Die Klausurfragen werden aus den Inhalten der Vorlesung Allgemeine Psychologie (Prof. Jacobs) sowie aus den Inhalten der o.g. Lehrbuchkapitel generiert.
- Termin Klausur: 30.7.2008, 10-12 Uhr; Termin Nachklausur: 23.09.2008, 10-12 Uhr.

Sprechzeiten:

- Thaler/Heine: Di, 15-16 Uhr

Themen der Sitzungen im SS 08

Nr.	Woche	Thema	Inhalt
1	14.4.-18.4.		Klärung inhaltlicher und organisatorischer Fragen
2	21.4.-25.4.	Einführung	<p><u>Basisliteratur:</u></p> <p>Kapitel 1 (<i>Introduction</i>) und 2 (<i>Research Methodology</i>), Gazzaniga & Heatherton, 2006.</p>
3	28.4.-2.5.	Genetische/ biologische Grundlagen	<p><u>Basisliteratur:</u></p> <p>Kapitel 3 (<i>Genetic and Biological Foundations</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Genetic foundations of behaviour: The role of FOXP2 in language development</i></p> <p>a) Marcus, G. F., & Fisher, S. E. (2003). FOXP2 in focus: what can genes tell us about speech and language? <i>Trends in Cognitive Sciences</i>, 7, 257-62.</p> <p>b) Watkins, K. E., Dronkers, N. F., & Vargha-Khadem, F. (2002). Behavioural analysis of an inherited speech and language disorder: comparison with acquired aphasia. <i>Brain</i>, 125, 452-64.</p> <p>c) Liégeois, F., Baldeweg, T., Connelly, A., Gadian, D.G., Mishkin, M., & Vargha-Khadem, F. (2003). Language fMRI abnormalities associated with FOXP2 gene mutation. <i>Nature Neuroscience</i>, 6, 1230-7.</p> <p>(Optional: d) Haesler, S., Rochefort, Ch., Georgi, B., Licznanski, P., Osten, P., & Scharff, C. (2007). Incomplete and inaccurate vocal imitation after knockdown of FoxP2 in songbird basal ganglia nucleus area X. <i>Public Library of Science-Biology</i>, 5, 2885-97.)</p> <p>2) <i>Biological foundations of behaviour: The somatic marker hypothesis</i></p> <p>a) Rahman, S., Sahakian, B. J., Cardinal, R. N., Rogers, R. D., & Robbins, T. W. (2001). Decision making and neuropsychiatry. <i>Trends in Cognitive Sciences</i>, 5, 271-5.</p> <p>b) Bechara, A., Damasio, H., & Damasio, A. R. (2000). Emotion, Decision Making and the Orbitofrontal Cortex. <i>Cerebral Cortex</i>, 10, 295-307.</p>

			<p>(ggf. ergänzend dazu: Bechara, A., & Damasio, A. (2005). The somatic marker hypothesis: A neural theory of economic decision. <i>Games and Economic Behavior</i>, 52, 336-72.)</p> <p>c) Maia, T.V., & McClelland, J. L. (2004). A re-examination of the evidence for the somatic marker hypothesis: What participants really know in the Iowa gambling task. <i>Proceedings of the National Academy of Sciences</i>, 101, 16075-80.</p> <p>d) Fellows, L.K., & Farah, M.J. (2003). Ventromedial frontal cortex mediates affective shifting in humans: Evidence from a reversal learning paradigm. <i>Brain</i>, 126, 1830-37.</p>
4	5.5.-9.5.	Gehirn und Bewusstsein	<p><u>Basisliteratur:</u></p> <p>Kapitel 4 (<i>The Brain and Consciousness</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Integration of unconscious and conscious processes of the two hemispheres – Evidence from split-brain</i></p> <p>Gazzaniga, M.S. (2000). Cerebral specialization and interhemispheric communication: does the corpus callosum enable the human condition? <i>Brain</i>, 123, 1293-326.</p> <p>2) <i>Self-knowledge</i></p> <p>a) Wilson, T. D., & Dunn, E. W. (2004). Self-knowledge: Its limits, value and potential for improvement. <i>Annual Reviews of Psychology</i>, 55, 493-518.</p> <p>b) Halberstadt, J.B., & Levine, G.M. (1999). Effects of reasons analysis on the accuracy of predicting basketball games. <i>Journal of Applied Social Psychology</i>, 29, 517-30.</p>

5	13.5.-16.5.	Wahrnehmung	<p><u>Basisliteratur:</u></p> <p>Kapitel 5 (Teil 1) (<i>Sensation and Perception</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Sensation: Acoustic processing – speech vs. music</i></p> <p>a) Zatorre, R. J., Belin, P., & Penhune, V. B. (2002). Structure and function of auditory cortex: music and speech. <i>Trends in Cognitive Sciences</i>, 6, 37-46.</p> <p>b) Robin, D.A., Tranel, D., & Damasio, H. (1990). Auditory perception of temporal and spectral events in patients with focal left and right cerebral lesions. <i>Brain and Language</i>, 39, 539-55.</p> <p>c) Nicholson, K. G., Baum, S., Kilgour, A., Koh, C. K., Munhall, K. G., & Cuddy, L. L. (2003). Impaired processing of prosodic and musical patterns after right hemisphere damage. <i>Brain and Cognition</i>, 52, 382-9.</p> <p>(ggf. ergänzend: Tervaniemi, M., & Hugdahl, K. (2003). Lateralization of auditory cortex functions. <i>Brain Research Reviews</i>, 43, 231-46.)</p> <p>2) <i>Perception: The neuro-cognitive basis of face perception</i></p> <p>a) McKone, E., Kanwisher, N., & Duchaine, B. C. (2007). Can generic expertise explain special processing for faces? <i>Trends in Cognitive Sciences</i>, 11, 8-15.</p> <p>b) Cohen Kadosh, K., & Johnson, M. H. (2007). Developing a cortex specialized for face perception. <i>Trends in Cognitive Sciences</i>, 11, 367-9.</p> <p>c) Kanwisher, N., McDermott, J., & Chun, M. M. (1997) The fusiform face area: a module in human extrastriate cortex specialized for face perception. <i>The Journal of Neuroscience</i>, 17, 4302-4311.</p> <p>d) Nelson, C.A. (2001) The development and neural bases of face recognition. <i>Infant and Child Development</i>, 10, 3-18.</p>
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6	19.5.-23.5.	Aufmerksamkeit	<p><u>Basisliteratur:</u> Kapitel 7 (Teil 2) (<i>Attention</i>), Gazzaniga, Ivry, Mangun, 2002</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Attention: early or late filter of perception?</i> Driver, J. (2001). A selective review of selective attention research from the past century. <i>British Journal of Psychology</i>, 92, 53-78.</p> <p>2) <i>Holistic vs. analytic models of visuell, selective attention</i> Shalev, L. & Algom, D. (2000). Stroop and Garner effects in and out of Posner's beam: Reconciling two conceptions of selective attention. <i>Journal of Experimental Psychology: Human Perception and Performance</i>, 26, 997-1017.</p> <p>Methodenteile der Artikel:</p> <ul style="list-style-type: none"> a) Kahneman, D., & Henik, A. (1981). Perceptual organization and attention. In M. Kubovy & J.R. Pomerantz (Eds.), <i>Perceptual organization</i> (pp. 181-211). Hillsdale, NJ: Erlbaum. b) Melara, R.D., & Mounts, J.R.W. (1993). Selective attention to Stroop dimension: Effects of baseline discriminability, response mode, and practice. <i>Memory & Cognition</i>, 21, 627-45.
7	26.5.-30.5.	Lernen	<p><u>Basisliteratur:</u> Kapitel 6 (<i>Learning and Reward</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Explicit vs. implicit learning</i> Sun, R., Slusarz, P., & Terry, C. (2005). The interaction of the explicit and the implicit in skill learning: A dual-process approach. <i>Psychological Review</i>, 112, 159-92.</p>

			<p>2) <i>How do we learn to select strategies?</i></p> <p>Rieskamp, J., & Otto, P.E. (2006). SSL: A theory of how people learn to select strategies. <i>Journal of Experimental Psychology: General</i>, 135, 207-36.</p>
8	2.6.-6.6.	Gedächtnis	<p><u>Basisliteratur:</u></p> <p>Kapitel 7 (<i>Memory</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Dual-Process theories of recognition memory</i></p> <p>a) Rugg, M. D., & Yonelinas, A. P. (2003). Human recognition memory: a cognitive neuroscience perspective. <i>Trends in Cognitive Sciences</i>, 7, 313-9.</p> <p>b) Diana, R. A., Yonelinas, A. P., Ranganath, C. (2007). Imaging recollection and familiarity in the MTL: a three-component model.. <i>Trends in Cognitive Sciences</i>, 11, 379-86.</p> <p>c) Eichenbaum, H., Yonelinas, A. P., & Ranganath, C. (2007). The medial temporal lobe and recognition memory. <i>Annual Review of Neuroscience</i>, 30, 123-52.</p> <p>2) <i>Sleep and memory consolidation</i></p> <p>a) Marshall, L., & Born, J. (2007). The contributions of sleep to hippocampus-dependent memory consolidation. <i>Trends in Cognitive Sciences</i>, 11, 442-50.</p> <p>b) Plihal, W., & Born, J. (1997). Effects of early and late nocturnal sleep on declarative and procedural memory. <i>Journal of Cognitive Neuroscience</i>, 9, 534-47.</p> <p>c) Hornung, O. P., Regen, F., Danker-Hopfe, H., Schredl, M., & Heuser, I. (2007). The relationship between REM sleep and memory consolidation in old age and effects of cholinergic medication. <i>Biological Psychiatry</i>, 61, 750-7.</p>

9	9.6.-13.6.	Denken	<p><u>Basisliteratur:</u></p> <p>Kapitel 8 (Teil 1) (<i>Thinking</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Analogical reasoning</i></p> <p>a) Dunbar, K., & Blanchette, I (2001). The in vivo/in vitro approach to cognition: the case of analogy. <i>Trends in Cognitive Sciences</i>, 5, 334-9.</p> <p>b) Holyoak, K. J., & Thagard, P. (1997). The analogical mind. <i>American Psychologist</i>, 52, 35-44.</p> <p>c) Singer-Freeman K.E., & Goswami U. (2001). Does half a pizza equal half a box of chocolates? - Proportional matching in an analogy task. <i>Cognitive Development</i>, 16, 811-29.</p> <p>(ggf. ergänzend: Gick, M. L., & Holyoak, K. L. (1980). Analogical problem solving. <i>Cognitive Psychology</i>, 15, 306–55.)</p> <p>2) <i>Linguistic relativity</i></p> <p>a) Majid, A., Bowerman, M., Kita, S., Haun, D. B. M., & Levinson, S. C. (2004). Can language restructure cognition? The case for space. <i>Trends in Cognitive Sciences</i>, 8, 108-14.</p> <p>b) Gallistel, C. R. (2002). Language and spatial frames of reference in mind and brain. <i>Trends in Cognitive Sciences</i>, 6, 321-2.</p> <p>c) Kay, P., & Regier, T. (2006). Language, thought and color: recent developments. <i>Trends in Cognitive Sciences</i>, 10, 51-4.</p> <p>d) Li, P., & Gleitman, L. (2002). Turning the tables: language and spatial reasoning. <i>Cognition</i>, 83, 265-94.</p>
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10	16.6.-20.6.	Intelligenz	<p><u>Basisliteratur:</u></p> <p>Kapitel 8 (Teil 2) (<i>Intelligence</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>The relation between working memory capacity and intelligence</i></p> <p>a) Conway, A. R. A., Kane, M. J., & Engle, R. W. (2003). Working memory capacity and its relation to general intelligence. <i>Trends in Cognitive Sciences</i>, 7, 547-52.</p> <p>b) Süß, H.M., Oberauer, K., Wittmann, W. W., Wilhelm, O., & Schulze, R. (2002) Working-memory capacity explains reasoning ability – and a little bit more. <i>Intelligence</i>, 30, 261–288.</p> <p>2) <i>An evolutionary perspective on intelligence</i></p> <p>a) Roth, G., & Dicke, U. (2005). Evolution of the brain and intelligence. <i>Trends in Cognitive Sciences</i>, 9, 250-7.</p> <p>b) Byrne, R. D., & Russon, A. E. (1998). Learning by imitation: A hierarchical approach. <i>Behavioral and Brain Sciences</i>, 21, 667–721.</p> <p>c) Barr, R., Dowden, A., & Hayne, D. (1996). Developmental changes in deferred imitation by 6- to 24-month-old infants. <i>Infant Behavior and Development</i>, 19, 159-70.</p> <p>d) Bjorklund, D. F., Bering, J. M., & Ragan, P. (2000). A two-year longitudinal study of deferred imitation of object manipulation in a juvenile chimpanzee (pan troglodytes) and orangutan (pongo pygmaeus). <i>Developmental Psychobiology</i>, 37, 229-37.</p>
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11	23.6.-27.6.	Motivation	<p><u>Basisliteratur:</u> Kapitel 9 (<i>Motivation</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Motivation and self-regulation</i></p> <p>a) Higgins, E.T., & Pittman, T.S. (2008). Motives of the Human Animal: Comprehending, managing, and sharing inner states. <i>Annual Reviews of Psychology</i>, 59, 361-85.</p> <p>b) Amodio, D.M., Master, S.L., Yee, C.M., & Taylor, S.E. (2007). Neurocognitive components of the behavioral inhibition and activation systems: Implications for theories of self-regulation. <i>Psychophysiology</i>, 45, 11-19.</p> <p>2) <i>Intrinsic Motivation</i></p> <p>Patall, E.A., Cooper, H., & Robinson, J.C. (2008). The effects of choice on intrinsic motivation and related outcomes: A meta-analysis of research findings. <i>Psychological Bulletin</i>, 134, 270-300.</p>
12	30.6.-4.7.	Emotion	<p><u>Basisliteratur:</u> Kapitel 10 (<i>Emotion and Health</i>), Gazzaniga & Heatherton, 2006.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Emotion and Cognition</i></p> <p>a) Olson, A., & Ochsner, K.N. (2007). The role of social cognition in emotion. <i>Trends in Cognitive Neuroscience</i>, 12, 65-71.</p> <p>b) Storbeck, J., & Clore, G.L. (2007). On the interdependence of cognition and emotion. <i>Cognition and Emotion</i>, 21, 1212-37.</p>

			<p>2) <i>Emotion and Memory</i></p> <p>a) Barnier, A.J., Conway, M.A., Mayoh, L., Speyer, J., Avizmil, O., & Harris, C.B. (2007). Directing forgetting of recently recalled autobiographical memories. <i>Journal of Experimental Psychology: General</i>, 136, 301-22.</p> <p>b) Anderson, S.J., Cohen, G., & Tylor, S. (2000). Rewriting the past: Some factors affecting the variability of personal memories. <i>Applied Cognitive Psychology</i>, 14, 435-54.</p>
13	7.7.-11.7.	Sprache	<p><u>Basisliteratur:</u></p> <p>Kapitel 9(<i>Language and the Brain</i>), Gazzaniga, Ivry & Mangun, 2002.</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>An evolutionary perspective on the emergence of communication systems</i></p> <p>a) Christiansen, M. H., & Kirby, S (2003) Evolving grounded communication for robots. <i>Trends in Cognitive Science</i>, 7, 300-7.</p> <p>b) Steels, L. (2003) Evolving grounded communication for robots. <i>Trends in Cognitive Science</i>, 7, 308-12.</p> <p>c) Galantucci, B. (2005) An experimental study of the emergence of human communication systems. <i>Cognitive Science</i>, 29, 737-67.</p> <p>d) Garrod, S., & Anderson, A. (1987) Saying what you mean in dialogue: a study in conceptual and semantic co-ordination. <i>Cognition</i>, 27, 181-218.</p> <p>2) <i>Gesture and speech: the motor theory of speech perception</i></p> <p>a) Liberman, A. M, & Whalen, D. H. (2000) On the relation of speech to language. <i>Trends in Cognitive Science</i>, 4, 187-96.</p> <p>b) Gentilucci, M., & Corballis, M. C. (2006). From manual gesture to speech: a gradual transition. <i>Neuroscience and Biobehavioral Reviews</i>, 30, 949-60.</p>

			<p>c) Bernardis, P., Gentilucci, M., 2006. Speech and gesture share the same communication system. <i>Neuropsychologia</i>, 44, 178-90.</p> <p>d) Watkins, K. E., Strafella, A. P., & Paus, T. (2003). Seeing and hearing speech excites the motor system involved in speech production. <i>Neuropsychologia</i>, 41, 989-94.</p> <p>e) Pulvermuller, F., Huss, M., Kherif, F., Moscoso del Prado Martin, F., Hauk, O., & Shtyrov, Y. (2006). Motor cortex maps articulatory features of speech sounds. <i>Proceedings of the Natural Academy of Sciences of the USA</i>, 103, 7865-70.</p> <p>(ggf. ergänzend: Liberman, A., & Mattingly, I. G. (1985). The motor theory of speech perception – revised. <i>Cognition</i>, 21, 1-36.)</p>
14	14.7.-18.7.	Handlung	<p><u>Basisliteratur:</u></p> <p>Kapitel 11 und 12 (Teil: <i>Goal oriented Behavior</i>), Gazzaniga, Ivry & Mangun, 2002</p> <p><u>Vertiefende Literatur:</u></p> <p>1) <i>Understanding the actions of others</i></p> <p>a) Gallese, V., Keysers, C., & Rizzolatti, G. (2004). A unifying view of the basis of social cognition. <i>Trends in Cognitive Science</i>, 9, 396-403.</p> <p>b) Rizzolatti, G., Fadiga, L., Gallese, V., & Fogassi, L. (1996). Premotor cortex and the recognition of motor actions. <i>Cognitive Brain Research</i>, 3, 131-41.</p> <p>c) Rizzolatti, G., & Arbib, M. (1998). Language within our grasp. <i>Trends in Neurosciences</i>, 21, 189-94.</p> <p>d) Sato, M., Mengarelli, M., Riggio, L., Gallese, V., & Buccino, V. (2008). Task related modulation of the motor system during language processing. <i>Brain and Language</i>, in press.</p>