

Block Seminar Winter Semester 2018/19

Meaning – Embodiment – Extrospection

Seminar Syllabus

1. Basic Papers

1. **MF Grounding and Embodiment I:** Barsalou, L. W., Kyle Simmons, W., Barbey, A. K., & Wilson, C. D. (2003). Grounding conceptual knowledge in modality-specific systems. *Trends in Cognitive Sciences*, 7(2), 84-91.
2. **MP Mirror Neurons:** Rizzolatti, G., & Craighero, L. (2004). The mirror-neuron system. *Annual Review in Neuroscience*, 27, 169-192. **Experimental:** Kohler, E., Keysers, C., Umiltà, M. A., Fogassi, L., Gallese, V., & Rizzolatti, G. (2002). Hearing sounds, understanding actions: action representation in mirror neurons. *Science*, 297(5582), 846-848.
3. **FP Meaning and action I – experimental psychology:** Glenberg, A. M., & Kaschak, M. P. (2002). Grounding language in action. *Psychonomic Bulletin & Review*, 9(3), 558-565. **Experimental:** Glenberg, A. M., Sato, M., & Cattaneo, L. (2008). Use-induced motor plasticity affects the processing of abstract and concrete language. *Curr Biol*, 18(7), R290-291.
4. **FP Meaning and action II – neuroscience of language:** Pulvermüller, F., & Fadiga, L. (2010). Active perception: Sensorimotor circuits as a cortical basis for language. *Nature Reviews Neuroscience*, 11(5), 351-360.
5. **MF Grounding and embodiment II:** Fischer, M. H., & Zwaan, R. A. (2008). Embodied language: a review of the role of the motor system in language comprehension. *Q J Exp Psychol*, 61(6), 825-850.

6. **MP Situated predictions:** Clark, A. (2013). Whatever next? Predictive brains, situated agents, and the future of cognitive science. *Behav Brain Sci*, 36(3), 181-204. doi:10.1017/S0140525X12000477

2. Theory: 1. & 2./3. Person (Extrospection & Embodiment)

1. **MP Michael Pauen: Extrospection**

2. **MP** Is there a first person privilege? Pauen, M. (2010). How privileged is first-person privileged access? *American Philosophical Quarterly*, 47(1), 1-15.
3. **MP** 2nd. Person Perspective: Pauen, M. (2012). The second-person perspective. *Inquiry*, 55(1), 33-49.
4. **FP** Meaning as language use: Wittgenstein, L. (1953). *Philosophical Investigations*. Oxford: Blackwell Publishers, §§ 1-50. Baker, G. P., & Hacker, P. M. S. (2009). Wittgenstein: Understanding and meaning. *Essays* (Vol. 1, part 1). Chichester: Wiley-Blackwell. Baker & Hacker, 2009, analyt commentary, vol 1, pt 2, chapter VIII: Meaning and use.
5. **FP** How can we talk about emotions? Gebauer, G. (2017). Wie können wir über Emotionen sprechen? In G. Gebauer, M. Holodyski, S. Koelsch, & C. von Scheve (Eds.), *Von der Emotion zur Sprache: Wie wir lernen, über Gefühle zu sprechen* (pp. 34-84). Velbrück Wissenschaft: Weilerswist.
6. **MF** Emotion, Embodiment, Interpretation: Feldman Barrett, L. (2017). The theory of constructed emotion: An active inference account of interoception and categorization. *Social Cognitive and Affective neuroscience*, 12(1), 1-23.
7. **MF** Blocking muscles – blocking emotions? Havas, D. A., Glenberg, A. M., Gutowski, K. A., Lucarelli, M. J., & Davidson, R. J. (2010). Cosmetic use of botulinum

toxin-A affects processing of emotional language. *Psychological Science*, 21(7). 895-900.

8. **FP** Emotion words and the motor system. Moseley, R., Carota, F., Hauk, O., Mohr, B., & Pulvermüller, F. (2012). A role for the motor system in binding abstract emotional meaning. *Cereb Cortex*, 22(7), 1634-1647. doi:10.1093/cercor/bhr238

9. **FP** Autism, Alexithymie and language processing. Moseley, R. L., & Pulvermüller, F. (2018). What can autism teach us about the role of sensorimotor systems in higher cognition? New clues from studies on language, action semantics, and abstract emotional concept processing. *Cortex*, 100, 149-190. doi:10.1016/j.cortex.2017.11.019

10. **FP** Friedemann Pulvermüller: Grounding language in inner states by way of action

3. Abstract Meaning & Mathematics

1. **MP** Problems for the embodied cognition perspective. Dove, G. (2016). Three symbol ungrounding problems: Abstract concepts and the future of embodied cognition. *Psychon Bull Rev*, 23(4), 1109-1121. doi:10.3758/s13423-015-0825-4

2. **MF** Abstract concepts – an embodied solution? Borghi, A. M., Binkofski, F., Castelfranchi, C., Cimatti, F., Scorolli, C., & Tummolini, L. (2017). The challenge of abstract concepts. *Psychol Bull*, 143(3), 263-292. doi:10.1037/bul0000089

3. **FP** Brain correlates of different types of abstract concepts. Dreyer, F. R., & Pulvermüller, F. (2018). Abstract semantics in the motor system? - An event-related fMRI study on passive reading of semantic word categories carrying abstract emotional and mental meaning. *Cortex*, 100, 52-70. doi:10.1016/j.cortex.2017.10.0212

4. **FP** Is there an embodied perspective on the concept of causation?

Pulvermüller, F. (2018). The case of CAUSE: neurobiological mechanisms for grounding an abstract concept. *Philos Trans R Soc Lond B Biol Sci*, 373(1752). doi:10.1098/rstb.2017.0129

5. **MF** Pinheiro-Chagas, P., Didino, D., Haase, V.G., Wood, G. & Knops, A. (2018). The developmental trajectory of the Operational Momentum Effect. *Front. Psychol.* 9:1062. doi: 10.3389/fpsyg.2018.01062

6. **MF** Vincent-Lamarre, P., Blondin Masse, A., Lopes, M., Lord, M., Marcotte, O., & Harnad, S. (2016). The latent structure of dictionaries. *Topics in Cognitive Science*, 8, 625-659.

7. **MP** Theoretical Paper Michael (Ev. Hohwy)

4. General Discussion