

16786 Colloquium/Seminar

Progress in Brain Language Research

Friedemann Pulvermüller

2 SWS, Seminar/Colloquium

Zeit/Time: Mi/Wed 16-18 h

Ort/Location: JK 31/122 Geschäftszimmer (Habelschwerdter Allee 45)

This research seminar focuses on reviewing and discussing recent progress in the cognitive neuroscience of language. It has three main strands. 1) External speakers will set the stage for focused discussions. 2) In depth reviews of research publications will provide insights into recent progress in specific research areas. 3) Researchers at the FU Berlin's Brain Language Laboratory and seminar participants interested in semantics, pragmatics and/or their cognitive and brain basis will present their own research plans and aspects of their ongoing work to open discussion of future perspectives. In this context, MA and BA students may present work for their theses.

Hot seminar topics in the new semester include new experimental findings in the context of three ongoing research projects, which respectively focus on experimental pragmatics, neurosemantics and therapy of language and communication.

Recommended reading:

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*, in press.

Grisoni, L., Miller, T. M., & Pulvermüller, F. (2017). Neural Correlates of Semantic Prediction and Resolution in Sentence Processing. *J Neurosci*, 37(18), 4848-4858. doi:10.1523/JNEUROSCI.2800-16.2017

Miller, T. M., Schmidt, T. T., Blankenburg, F., & Pulvermüller, F. (2017). Verbal labels facilitate tactile perception. *Cognition*, 171, 172-179. doi:10.1016/j.cognition.2017.10.010.

Pulvermüller, F. (2018). Neural reuse of action perception circuits for language, concepts and communication. *Progress in Neurobiology*, in press. doi:10.1016/j.pneurobio.2017.07.001.

Pulvermüller, F. (2018). The case of CAUSE: Neurobiological mechanisms for grounding an abstract concept. *Philosophical Transactions of the Royal Society, London, B: Biological Sciences*, in press

Schomers, M. R., Garagnani, M., & Pulvermüller, F. (2017). Neurocomputational consequences of evolutionary connectivity changes in perisylvian language cortex. *J Neurosci*, 37(11), 3045-3055.

Stahl, B., Mohr, B., Büscher, V., Dreyer, F. R., Lucchese, G., & Pulvermüller, F. (2018). Efficacy of intensive aphasia therapy in chronic stroke patients: A randomised controlled trial. *Journal of Neurology, Neurosurgery, and Psychiatry*, in press.

Tomasello, R., Garagnani, M., Wennekers, T., & Pulvermüller, F. (2017). Brain connections of words, perceptions and actions: A neurobiological model of spatio-temporal semantic activation in the human cortex. *Neuropsychologia*, 98(4), 111–129. doi:10.1016/j.neuropsychologia.2016.07.004.

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Technicalities

The course is part of the teaching offered by the Freie Universität's FB Philosophy and Humanities and by the Berlin School of Mind and Brain at the Humboldt Universität. It is open to interested students from all departments. It will be chaired by Friedemann Pulvermüller under the admin support of Verena Arndt.

To obtain a certificate of attendance, it is necessary to

- attend most of the sessions (maximum misses: three),
- pre- and reprocess the session content by reading the recommended key papers, and
- present a key paper, own research or a research plan addressing the language mechanisms of the human brain. Presentations can be brief or last up to 30'.

Contact and more information:

Verena Arndt (Sekretariat), rm JK 31/234; phone: +49 (0)30 838 58140

E-mail: verena.arndt@fu-berlin.de

Friedemann Pulvermüller, rm JK 31/232; Office hour: Wed 12-13 h

For more information and updates, please visit:

<http://www.brainlang.fu-berlin.de/teaching>, <http://www.brainlang.fu-berlin.de/talks>

Seminar Program

Unless otherwise noted, the Seminar will be held on Wednesdays, from 16:15 – 17:45 h in room JK 31/122 of the main building of the Freie Universität Berlin, Habelschwerdter Allee 45, 14195 Berlin.

17.10. Introduction, Seminar Planning

Our research: Overview and next steps

24.10. Practice talk:

Lea Doppelbauer: Aphasia therapy

31.10. No seminar

07.11. Project presentation

Tally McCormick Miller: Whorfian effects on tactile and visual perception?

14.11. Research talk

Luigi Grisoni: Phonological priming and prediction: Does the motor system play a role?

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21.11. Vorträge W2-Professur Didaktik des Deutschen

28.11. Project presentation

Isabella Boux, Rosario Tomasello, Luigi Grisoni: Speech act production

Natasha Janzen Ulbricht: The impact of teacher gestures on preposition learning: ideas for data analysis

05.12. Project presentation

Valerie Keller et al: Motor cortex influence on image perception and language understanding

Tally McCormick Miller: Paper presentation

12.12. No seminar

19.12. Research talk

Felix Dreyer: Brain lesions and word categories

09.01. Project presentation

Konstantina Margiotoudi: Mapping sound symbolism in action

16.01. Research talk

Martin Azar: tba

23.01. Research talk

Malte Henningsen: tba

30.01. Project presentation

Sara Hermosa: Grammatisches Geschlecht und die mentale Repräsentation der Wortbedeutung

06.02. Research talk

Luigi Grisoni: Prediction in language – overview of models

13.02. Seminar evaluation and outlook

Planning of program for the semester break and winter term