

CURRICULUM VITAE


PERSONAL INFORMATION

Name Dr Heidrun Schultz

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ACADEMIC HISTORY

Since 2019 **Postdoc**, Adaptive Memory Group (PI: Dr Roland G. Benoit), Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

2017-2019 **Research Fellow**, Episodic Memory Lab (PI: Dr Bernhard P. Staresina), School of Psychology, University of Birmingham, UK

- July 2017 – June 2019: **Marie Skłodowska-Curie Research Fellowship**, Project “Memento – memory processing in the human entorhinal cortex” (with Dr Bernhard P. Staresina)

2015-2016 **Research Associate**, Biological Psychology and Cognitive Neuroscience (PI: Prof. Hauke Heekeren), Department of Education and Psychology, Freie Universität Berlin, Germany

2014-2015 **Research Associate**, Decision Neuroscience and Prospection (PI: Dr. Jan Peters), Department of Systems Neuroscience, UKE Hamburg, Germany

2010-2014 **PhD Research**, Department of Systems Neuroscience, University Medical Centre Hamburg-Eppendorf (UKE Hamburg), Germany

Degree: Dr. rer. biol. hum. (PhD in Human Biology), *magna cum laude*, December 2015

Thesis: “Functional Organisation of the Medial Temporal Lobe”

Supervisors: Dr Jan Peters, Dr Tobias Sommer, Prof. Christian Büchel

2004-2010 **Studies in Psychology**, Technical University Dresden, Germany

Degree: Diplom (MSc equivalent) in Psychology, *with distinction*, February 2010

Thesis: “The impact of effect anticipation on measures of motor preparation during action initiation. An EEG study.” [German]

Supervisor: Dr Hannes Ruge

PUBLICATIONS

2019 **Schultz H**, Tibon R, LaRocque KF, Gagnon SA, Wagner AD, Staresina BP (2019) Content tuning in the medial temporal lobe cortex: voxels that perceive, retrieve. *eNeuro*.

Schmidt K, Forkmann K, **Schultz H**, Gratz M, Bitz A, Wiech K, Bingel U (2019) Enhanced neural reinstatement for evoked facial pain compared with evoked hand pain. *J Pain*.

Rihm JS, Menz MM, **Schultz H**, Bruder L, Schilbach L, Schmid SM, Peters J (2019) Sleep deprivation selectively upregulates an amygdala-hypothalamic circuit involved in food reward. *J Neurosci* 39: 888-899.

2016 Forkmann K, Schmidt K, **Schultz H**, Sommer T, Bingel U (2016) Experimental pain impairs recognition memory irrespective of pain predictability. *Eur J Pain* 20:977–988.

2015 **Schultz H**, Sommer T, Peters J (2015) The role of the human entorhinal cortex in a representational account of memory. *Front Hum Neurosci* 9:628. (Review article)

Bayer J, Rune G, **Schultz H**, Tobia MJ, Mebes I, Katzler O, Sommer T (2015) The effect of estrogen synthesis inhibition on recollection and familiarity. *Psychoneuroendocrinology* 56:213-25.

2014 Bayer J, **Schultz H**, Gamer M, Sommer T (2014) Menstrual-cycle dependent fluctuations in ovarian hormones affect emotional memory. *Neurobiol Learn Mem* 110:55–63.

2012 **Schultz H**, Sommer T, Peters J (2012) Direct evidence for domain-sensitive functional subregions in human entorhinal cortex. *J Neurosci* 32:4716–4723.

POSTER PRESENTATIONS

- 2019 **Schultz H**, Greve A, Rua C, Berron D, Henson RN, Staresina BP (accepted) Memento – memory for objects and scenes in the human medial temporal lobe at 7 Tesla. *Submitted for the Neuroscience 2019, October 19-23 2019, Chicago, USA.*
- 2018 **Schultz H**, Tibon R, LaRocque KF, Gagnon SA, Wagner AD, Staresina BP (2018) Dissociation of associative retrieval processes across the human medial temporal lobe. *Presented at the Neuroscience 2018, November 3 – 7 2018, San Diego, USA.*
- 2017 **Schultz H**, Yoo J, Meshi D, Heekeren HR (2017) Reward modulates memory encoding for objects and scenes in the medial temporal lobe. Presented at the *Neuroscience 2017, November 11 – 15 2017, Washington, DC, USA.*
- 2016 **Schultz H**, LaRocque KF, Gagnon SA, Wagner AD, Staresina BP (2016) Medial temporal and frontoparietal involvement in object and scene recollection. Presented at the *6th International Conference on Memory, July 17 – 22 2016, Budapest, Hungary.*
- 2014 **Schultz H**, Sommer T, Peters J (2014) EEG correlates of working memory retrieval after distraction. Presented at the *20th Annual Meeting of the Organization for Human Brain Mapping, June 8 – 12 2014, Hamburg, Germany.*
- 2013 **Schultz H**, Sommer T, Peters J (2013) The role of MTL subregions in content-dependent memory reactivation and reward. Presented at the *Neuroscience 2013, November 9 – 13, 2013, San Diego, USA.*
- 2012 **Schultz H**, Sommer T, Peters J (2012) Subregions in human entorhinal cortex are domain-sensitive. Presented at the *18th Annual Meeting of the Organization for Human Brain Mapping, June 10 – 14 2012, Beijing, China.*

TALKS

- 2019 **Schultz H** (2019). Memento: Memory for objects and scenes in the human medial temporal lobe at 7T. Talk presented at the *Meeting of the Memory and Perception Group, MRC Cognition and Brain Sciences Unit, University of Cambridge, 28th June 2019.*
Schultz H (2019). Objects & Scenes: En gros et en detail. Talk presented at the *Meeting of the Memory and Learning group, University of Birmingham, 27th June 2019.*
- 2018 **Schultz H**, Tibon R, LaRocque KF, Gagnon SA, Wagner AD, Staresina BP (2018) Domain-general and domain-specific recollections of objects and scenes in the MTL. Talk presented at the *Memory and Perception group meeting, 19th March 2018, MRC CBU, University of Cambridge.*
- 2012 **Schultz H**, Sommer T, Peters J (2012) Subregions in human entorhinal cortex are domain-sensitive. Talk presented at the *18th Annual Meeting of the Organization for Human Brain Mapping, June 10 – 14 2012, Beijing, China.*
- 2011 **Schultz H**, Sommer T, Peters J (2011) Direct evidence for domain-specific functional subregions in human entorhinal cortex. Invited talk presented at the *Department of Cognitive Neuroscience Research Colloquium, October 27 2011, Ruhr University Bochum, Germany.*

GRANTS AND AWARDS

- 2017 **Marie Skłodowska-Curie Individual Fellowship**, granted by the European Commission, with Dr Bernhard Staresina, University of Birmingham
- 2013 **Travel Grant** of the German Academic Exchange Service for the *Neuroscience 2013, November 9 – 13, 2013, San Diego, USA.* (~€1400)
- 2012 **Trainee Abstract Travel Award** at the *18th Annual Meeting of the Organization for Human Brain Mapping, June 10 – 14 2012, Beijing, China.* (\$700)
- 2010 **Werner Straub Award** for outstanding achievements during scientific qualification, awarded by the *Psychologie Kontakt e.V., Dresden, Germany.*