Name: **JProf. Dr. Monika Schönauer**
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Scientific Career

- **Chair of Neuropsychology**, Institute of Psychology, **Albert-Ludwigs-Universität Freiburg** (W1 Tenure-Track W3 Professorship). since 2020
- **Head of the Emmy Noether Research Group** "The Developing Engram – Imaging Memory Consolidation in Wakefulness and Sleep." since 2020
- **Research Fellow**, Princeton Computational Memory Lab, Princeton Neuroscience Institute, **Princeton University**, under Prof. Ken Norman. 2018-2019
- **Margarete von Wrangell Fellow**, Institute for Medical Psychology and Behavioral Neurobiology, **Eberhard-Karls-Universität Tübingen**. 2018-2020
- **Postdoctoral Researcher**, Institute for Medical Psychology and Behavioral Neurobiology, **Eberhard-Karls-Universität Tübingen**. 2014-2018
- **PhD Researcher**, Graduate School of Systemic Neurosciences, Bernstein Center for Computational Neuroscience, **Ludwig-Maximilians-Universität München.** 2011-2014

Funding

- **Emmy Noether Research Group** "The Developing Engram – Imaging Memory Consolidation in Wakefulness and Sleep." **1.36 Mio €** 2020-2025
- **Margarete von Wrangell-Habilitation Program for Women**, awarded to excellent researchers at universities in Baden-Württemberg. **210.000€** 2018-2022
- **DFG Research Fellowship**. **80.500€** 2018-2020
- Intramural funding in the **"fortüne" program** of the Medical Faculty, University of Tübingen. **85.000€** 2017-2019

Awards

- **Heinz Maier-Leibnitz Prize of the German Research Foundation** (20.000€, highest honor for early career researchers in Germany, awarded for establishing an independent scientific career, and outstanding achievement) 2021
- **Elected Member of the Memory Disorders Research Society (MDRS)** 2020
- **Leopoldina Young Investigator Award** (granted every two years to two outstanding young researchers from amongst all scientific disciplines by the German National Academy of Sciences) 2019
- Deutsche Gesellschaft für Psychophysiologie und ihre Anwendung (DGPA) **Early Career Award** (granted for outstanding contributions to the field) 2018
- DGPA Brain Products **Young Investigator Award** (granted for an outstanding publication in the field of EEG research) 2017
- **OHBM Merit Abstract Award** at OHBM 2017, Vancouver 2017
- Admittance and 1-year stipend in **Fast-track PhD Program**, Graduate School for Systemic Neurosciences, LMU München 2011
- **Fellowship** granted by the **Studienstiftung des deutschen Volkes** 2008

Publications

IF: Impact Factor (year of publication)

Original Publications (10 most important, chronological):

1. Himmer L*, **Schönauer M*,** Heib D, Schabus M, Gais S (2019). Rehearsal initiates systems memory consolidation, sleep makes it last. **Sci Adv**; 5: eaav1695. IF: **11.5**
2. Brodt S, Gais S, Beck J, Erb M, Scheffler K, **Schönauer M** (2018). Fast track to the neocortex: A memory engram in posterior parietal cortex. **Science**; 362: 1045-1048 IF: **41.1**
3. Brodt S, Pöhlchen D, Täumer E, Gais S, **Schönauer M** (2018). Incubation, not sleep, aids problem solving. **Sleep**; 10.1093/sleep/zsy155. IF: **5.1**
4. Alizadeh S, Jamalabadi H, **Schönauer M,** Leibold C, Gais S (2017). Decoding cognitive concepts from neuroimaging data using multivariate pattern analysis. **Neuroimage**; 10.1016/j.neuroimage. 2017.07.058 IF: **5.8**
5. **Schönauer M***, Alizadeh S*, Jamalabadi H, Abraham A, Pawlizki A, Gais S (2017). Decoding material-specific memory reprocessing during sleep in humans. **Nat Commun**;10.1038/ncomms15404 IF:**11.3**
6. Himmer L, Gais S, **Schönauer M** (2017). Sleep-mediated memory consolidation depends on the level of integration at encoding. **Neurobiol Learn Mem**; 137: 101-106. IF: **3.4**
7. Brodt S, Pöhlchen D, Flanagin V, Glasauer S, Gais S, **Schönauer M** (2016). Rapid and independent memory formation in the parietal cortex. **Proc Nat Acad Sci**; 15; 113(46): 13251-13256. IF: **9.4**
8. **Schönauer M**, Grätsch M, Gais S (2015). Evidence for two distinct sleep-related long-term memory consolidation processes. **Cortex**; 63: 68-78. F: **6.0**
9. **Schönauer M**, Pawlizki A, Köck C, Gais S (2014). Exploring the effect of sleep and reduced interference on different forms of declarative memory. **Sleep**; 37: 1995-2007. IF: **5.1**
10. **Schönauer M**, Geisler T, Gais S (2014). Strengthening procedural memories by reactivation in sleep. **J Cogn Neurosci**; 26: 143-53. IF: **4.7**

* *These authors contributed equally.* Sum IF of all published papers: **103.4**

Selected Book Chapters and Reviews

1. Pöhlchen, D. & **Schönauer, M** (2020). Sleep-dependent memory consolidation in the light of rapid neocortical plasticity. **Curr Opin Behav Sci**; 33: 118-125. IF: **3.4**
2. Antony J, **Schönauer M,** Staresina B, Cairney SA (2019). Sleep spindles and memory reprocessing. **Trends Neurosci**; 42: 1-3. IF: **11.4**
3. **Schönauer, M** & Pöhlchen, D (2018). Sleep spindles. **Curr Biol;** 28(19): R1129-R1130.
4. **Schönauer, M** (2018). Sleep spindles: Timed for memory consolidation. **Curr Biol**; 28(11): R656-658.
5. **Schönauer, M** & Born, J. (2017). The role of sleep in memory consolidation: Active or permissive? In J. H. Byrne (Ed.), *Learning and Memory: A Comprehensive Reference 2E.* (pp. 179-186). Amsterdam: Elsevier.
6. **Schönauer, M** & Gais, S (2017). The effect of sleep on multiple memory systems. In N. Axmacher & B. Rasch (Eds.), *Cognitive Neuroscience of Memory Consolidation* (pp. 179-186). Cham: Springer International Publishing.

Selected Talks at Scientific Conferences and Research Institutions

1. **Invited talk** “Imaging memory consolidation in sleep and wakefulness.”, 2020, Mind Meeting seminar series, Max-Planck-Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
2. **Symposium Organizer** “Imaging experience-dependent plasticity in humans.” S Brodt and M Schönauer. Organization of Human Brain Mapping OHBM Annual Meeting 2019, Rome, Italy.
3. **Invited talk** “Fast track to the neocortex: Functional and structural plasticity over rehearsal and sleep.” Memory Disorders Research Society Meeting (MDRS), 2018, Toronto, Canada
4. **Symposium Organizer** “Memory systems interactions” M Schönauer & S Gais. International Conference on Memory (ICOM6), 2016, Budapest, Hungary. Talk title: Sleep integrates representations across multiple memory systems.