

Dr. Benjamin Stahl

CURRICULUM VITAE

ADDRESS Charité Universitätsmedizin Berlin
Department of Neurology
Charitéplatz 1, 10117 Berlin, Germany

PHONE +49 (0)30 450 539 709

EMAIL benjamin.stahl@charite.de

Academic Qualifications

2009–2013 **Max Planck Institute for Human Cognitive and Brain Sciences,**
Leipzig, Germany
Doctorate (Dr. phil.) in Clinical Neuroscience (summa cum laude)

2009–2013 **International Max Planck Research School on Neuroscience of**
Communication, Leipzig, Germany
Graduate training, organized by the Max Planck Society

2003–2009 **Freie Universität Berlin,** Germany
Diploma in Psychology (specialization: Music and Musicology)

Professional Experience

SINCE 2020 **Humboldt-Universität zu Berlin and Technische Universität Dresden,**
Germany
Postdoctoral Researcher, and Habilitation Candidate

SINCE 2017 **Max Planck Institute for Human Cognitive and Brain Sciences,**
Leipzig, and **Psychologische Hochschule Berlin,** Germany
Visiting Scientist, and Training in Psychotherapy

SINCE 2016 **Charité Universitätsmedizin Berlin and Universitätsmedizin**
Greifswald, Germany
Postdoctoral Researcher (Agnes Flöel)

2013–2016 **Freie Universität Berlin,** Germany
Postdoctoral Researcher (Friedemann Pulvermüller)

2009–2013 **Max Planck Institute for Human Cognitive and Brain Sciences,**
Leipzig, Germany
PhD Project (supervision: Stefan Geyer and Sonja A. Kotz)

2008–2009 **Charité Universitätsmedizin Berlin,** Germany
Research Assistant

2007–2008 **Université de Montréal and McGill University,** Montreal, Canada
Research Fellowship (supervision: Isabelle Peretz)

2006–2007 **Max Planck Institute for Human Cognitive and Brain Sciences,**
Leipzig, Germany
Diploma Project (supervision: Stefan Koelsch)

2005–2006 **Max Planck Institute for Human Development,** Berlin, Germany
Research Assistant

2002–2003 **Jewish Social Service,** Brussels, Belgium

Grants and Scholarships

FULL SCHOLARSHIPS	Max-Planck-Gesellschaft (2009–2013) (Max Planck Society) Full PhD scholarship
	Studienstiftung des deutschen Volkes (2004–2009) (German National Academic Foundation) Full undergraduate scholarship
OTHER SCHOLARSHIPS	Deutscher Akademischer Austauschdienst (2014 and 2016) (German Academic Exchange Service) Traveling scholarships to attend conferences abroad
	Studienstiftung des deutschen Volkes (2007–2008) (German National Academic Foundation) Research scholarship to conduct a study in Montreal, Canada
AWARDS	Gesellschaft für Aphasieforschung und -behandlung (2013) (Society for Aphasia Research and Treatment) Doctoral dissertation prize
GRANTS	Deutsche Forschungsgemeinschaft (2019–2023) Research grant: 1 590 879 € (Co-Applicant) Project: “Transcranial direct current stimulation to enhance training effectiveness in chronic post-stroke aphasia: A randomized controlled trial”
	Berlin University Alliance (2019–2020) Research grant: 10 000 € (Co-Applicant) Project: “Digital societal health through communicative interaction”
	Else Kröner-Fresenius-Stiftung (2016–2019) Research grant: 92 700 € (PI) Project: “Neural resources of verbal communication in the rehabilitation of speech-motor planning disorders”

Teaching

- 2021/2022 (confirmed) **Technische Universität Dresden**
Winter-term seminar (two hours weekly):
“Vier gewinnt? Schulenübergreifende Arbeit in der Psychotherapie”
- 2021/2022 (confirmed) **Humboldt-Universität zu Berlin**
Winter-term seminar (two hours weekly):
“Musik in Klinischer Psychologie und Neurologie”
- 2021 **Medical School Berlin**
Summer-term seminar (four hours weekly):
“Psychotherapieverfahren”
- 2020/2021 **Technische Universität Dresden**
Winter-term seminar (two hours weekly):
“Vier gewinnt? Schulenübergreifende Arbeit in der Psychotherapie”
- 2020/2021 **Medical School Berlin**
Winter-term lecture (two hours weekly):
“Psychotherapieverfahren”
- 2020 **Medical School Berlin**
Summer-term seminar and lecture (six hours weekly):
“Klinisch-psychologische Diagnostik”
- 2019/2020 **Humboldt-Universität zu Berlin**
Winter-term seminar (two hours weekly):
“Musik in Klinischer Psychologie und Neurologie”

Selected Publications

- Stahl, B.,** Gawron, B., Regenbrecht, F., Flöel, A., & Kotz, S. A. (2020). Formulaic language resources may help overcome difficulties in speech-motor planning after stroke. *PLOS ONE*, *15*(6), e0233608. doi: 10.1371/journal.pone.0233608
- Stahl, B.,** Mohr, B., Büscher, V., Dreyer, F. R., Lucchese, G., & Pulvermüller, F. (2018). Efficacy of intensive aphasia therapy in patients with chronic stroke: A randomised controlled trial. *Journal of Neurology, Neurosurgery, and Psychiatry*, *89*(6), 586–592. doi: 10.1136/jnnp-2017-315962
- Stahl, B.,** Mohr, B., Dreyer, F. R., Lucchese, G., & Pulvermüller, F. (2016). Using language for social interaction: Communication mechanisms promote recovery from chronic non-fluent aphasia. *Cortex*, *85*, 90–99. doi: 10.1016/j.cortex.2016.09.021
- Stahl, B.,** & Van Lancker Sidtis, D. (2015). Tapping into neural resources of communication: Formulaic language in aphasia therapy. *Frontiers in Psychology*, *6*, 1526. doi: 10.3389/fpsyg.2015.01526
- Stahl, B.,** Kotz, S. A., Henseler, I., Turner, R., & Geyer, S. (2011). Rhythm in disguise: Why singing may not hold the key to recovery from aphasia. *Brain*, *134*(10), 3083–3093. doi: 10.1093/brain/awr240

All Publications

PUBLIC RECORD OF
ONGOING
(RANDOMIZED
CONTROLLED) TRIALS

Stahl, B., Lussana, M., Rizzonelli, M., Staudt, P., Milek, A., & Kim, J. H. (recruiting). Exploring the suitability of movement and sound in couple therapy: A proof-of-concept trial (www.who.int registry identifier: NCT04830553).

Stahl, B., Darkow, R., von Podewils, V., Meinzer, M., Grittner, U., Reinhold, T., Grewe, T., Breitenstein, C., & Flöel, F. (recruiting). Transcranial direct current stimulation to enhance training effectiveness in chronic post-stroke aphasia: A randomized controlled trial (www.who.int registry identifier: NCT03930121).

Stahl, B., Millrose, S., Denzler, P., Grittner, U., Jacobi, F., & Flöel, A. (recruiting). Impact of intensive social interaction on post-stroke depression in individuals with aphasia: A proof-of-concept trial (www.who.int registry identifier: NCT04318951).

JOURNAL ARTICLES
(IN PREPARATION,
UNDER REVIEW,
ACCEPTED)

Stahl, B., Stelzer, J., Pine, K., Holm, S., Reimer, E., Weiskopf, N., Flöel, A., Kotz, S. A., & Geyer, S. (in preparation). Tracking neural networks of everyday communication: A prospective motion-correction neuroimaging study.

Stahl, B., Lussana, M., Rizzonelli, M., Staudt, P., Milek, A., & Kim, J. H. (in preparation). Exploring the suitability of movement and sound in couple therapy: A proof-of-concept trial protocol.

Stahl, B., Millrose, S., Denzler, P., Grittner, U., Jacobi, F., & Flöel, A. (in preparation). Impact of intensive social interaction on post-stroke depression in individuals with aphasia: A proof-of-concept trial.

Popescu, T., **Stahl, B.**, Wiernik, B. M., Haiduk, F., Matzinger, T., Zemanek, M., Beisteiner, R., Fitch, T. W. (in preparation). Melodic Intonation Therapy for aphasia: A meta-analysis.

Doppelbauer, L., Mohr, B., Dreyer, F. R., **Stahl, B.**, Büscher, V., & Pulvermüller, F. (under review). Long-term stability of short-term Intensive Language-Action Therapy in chronic aphasia: A 1–2 years follow-up study.

Dreyer, F. R., Doppelbauer, L., **Stahl, B.**, Lucchese, G., Hauk, O., Mohr, B., & Pulvermüller, F. (under review). Differential contributions of left perilesional and right lesion homotopic frontal and temporal neuroplasticity to treatment related language production and perception improvements in people with chronic aphasia.

RELEASE Collaboration (under review). Dosage, intensity and frequency of language therapy for aphasia: An individual participant data network meta-analysis.

JOURNAL ARTICLES
(PUBLISHED)

Dreyer, F. R., Doppelbauer, L., Büscher, V., Arndt, V., **Stahl, B.**, Lucchese, G., Hauk, O., Mohr, B., & Pulvermüller, F. (2021). Increased recruitment of domain general neural networks in language processing following Intensive Language-Action Therapy: fMRI evidence from people with chronic aphasia. *American Journal of Speech-Language Pathology*, *30*, 455–465. doi: 10.1044/2020_ajslp-19-00150

RELEASE Collaboration (2021). Predictors of post-stroke aphasia recovery: A systematic review-informed individual participant data meta-analysis. *Stroke*, *52*, 1–10. doi: 10.1161/strokeaha.120.031162

Stahl, B., Gawron, B., Regenbrecht, F., Flöel, A., & Kotz, S. A. (2020). Formulaic language resources may help overcome difficulties in speech-motor planning after stroke. *PLOS ONE*, *15*(6), e0233608. doi: 10.1371/journal.pone.0233608

Lucchese, G., Flöel, A., & **Stahl, B.** (2020). A peptide link between HCMV infection, neuronal migration, and psychosis. *Frontiers in Psychiatry*, *10*, 3389. doi: 10.3389/fpsy.2020.00349

RELEASE Collaboration (2020). RELEASE: A protocol for a systematic review-based, individual participant data, meta- and network meta-analysis of complex speech-language therapy interventions for stroke-related aphasia. *Aphasiology*, *34*(2), 137–157. doi: 10.1080/02687038.2019.1643003

RELEASE Collaboration (2020). Communicating simply, but not too simply: Reporting of participants and speech and language interventions for aphasia after stroke. *International Journal of Speech-Language Pathology*, *22*(3), 302–312. doi: 10.1080/17549507.2020.1762000

Stahl, B., Darkow, R., von Podewils, V., Meinzer, M., Grittner, U., Reinhold, T., Grewe, T., Breitenstein, C., & Flöel, F. (2019). Transcranial direct current stimulation to enhance training effectiveness in chronic post-stroke aphasia: A randomized controlled trial protocol. *Frontiers in Neurology*, *10*, 1089. doi: 10.3389/fneur.2019.01089

- Lucchese, G., Flöel, A., & **Stahl, B.** (2019). Cross-reactivity as a mechanism linking infections to stroke. *Frontiers in Neurology, 10*, 469. doi: 10.3389/fneur.2019.00469
- Stahl, B.**, Mohr, B., Büscher, V., Dreyer, F. R., Lucchese, G., & Pulvermüller, F. (2018). Efficacy of intensive aphasia therapy in patients with chronic stroke: A randomised controlled trial. *Journal of Neurology, Neurosurgery, and Psychiatry, 89*(6), 586–592. doi: 10.1136/jnnp-2017-315962
- Stahl, B.**, Flöel, A., Amelew, B., Regenbrecht, F., & Kotz, S. A. (2018). Tapping into neural resources of verbal communication may help overcome difficulties in speech-motor planning after stroke. *Clinical Neurophysiology, 128*(8), e51. doi: 10.1016/j.clinph.2018.04.619
- Lucchese, G., & **Stahl, B.** (2018). Peptide sharing between viruses and DLX proteins: A potential cross-reactivity pathway to neuropsychiatric disorders. *Frontiers in Neuroscience, 12*, 150. doi: 10.3389/fnins.2018.00150
- Stahl, B.**, Mohr, B., Dreyer, F. R., Lucchese, G., & Pulvermüller, F. (2017). Communicative-pragmatic assessment is sensitive and time-effective in measuring the outcome of aphasia therapy. *Frontiers in Human Neuroscience, 11*, 223. doi: 10.3389/fnhum.2017.00223
- Mohr, B., **Stahl, B.**, Berthier, M. L., & Pulvermüller, F. (2017). Intensive communicative therapy reduces symptoms of depression in chronic nonfluent aphasia. *Neurorehabilitation and Neural Repair, 31*(12), 1053–1062. doi: 10.1177/1545968317744275
- Lucchese, G., Pulvermüller, F., **Stahl, B.**, Dreyer, F. R., & Mohr, B. (2017). Therapy-induced neuroplasticity of language in chronic post-stroke aphasia: A mismatch negativity study of (a)grammatical and meaningful/less mini-constructions. *Frontiers in Human Neuroscience, 10*, 669. doi: 10.3389/fnhum.2016.00669
- Stahl, B.**, Mohr, B., Dreyer, F. R., Lucchese, G., & Pulvermüller, F. (2016). Using language for social interaction: Communication mechanisms promote recovery from chronic non-fluent aphasia. *Cortex, 85*, 90–99. doi: 10.1016/j.cortex.2016.09.021
- Stahl, B.**, & Van Lancker Sittis, D. (2015). Tapping into neural resources of communication: Formulaic language in aphasia therapy. *Frontiers in Psychology, 6*, 1526. doi: 10.3389/fpsyg.2015.01526
- Stahl, B.**, & Kotz, S. A. (2014). Facing the music: Three issues in current research on singing and aphasia. *Frontiers in Psychology, 5*, 1033. doi: 10.3389/fpsyg.2014.01033
- Stahl, B.**, Henseler, I., Turner, R., Geyer, S., & Kotz, S. A. (2013). How to engage the right brain hemisphere in aphasics without even singing: Evidence for two paths of speech recovery. *Frontiers in Human Neuroscience, 7*, 35. doi: 10.3389/fnhum.2013.00035
- Stahl, B.**, Kotz, S. A., Henseler, I., Turner, R., & Geyer, S. (2011). Rhythm in disguise: Why singing may not hold the key to recovery from aphasia. *Brain, 134*(10), 3083–3093. doi: 10.1093/brain/awr240

PUBLICATIONS IN GERMAN	<p>Stahl, B. (2020). Musik als Brücke zur Verständigung? Neue Wege der Behandlung von Sprachstörungen nach einem Schlaganfall. <i>Neurologie & Rehabilitation</i>, 26(2), 114.</p> <p>Flöel, A., & Stahl, B. (2019). Aphasie. In Diener, H. C., Kastrup, O., & Steinmetz, H. (Editors). <i>Referenz Neurologie</i> (pp. 1045–1051), New York, NY: Thieme.</p> <p>Stahl, B. (2018). Musikgestützte Aphasietherapie. <i>neuroreha</i>, 10, 21–23. doi: 10.1055/s-0043-125439</p> <p>Stahl, B., & Sollereeder, S. (2014). Gesang in der Sprachtherapie: Theorie und Praxis. <i>logoTHEMA</i>, 2, 3–5.</p> <p>Stahl, B., & De Langen-Müller, U. (2012). Gesang in der Sprachtherapie: Theorie und Praxis. <i>Sprachheilarbeit</i>, 57(4), 210–212.</p> <p>Stahl, B., Kotz, S. A., Henseler, I., Turner, R., & Geyer, S. (2011). Rhythmus in Verkleidung: Warum melodische Intonation wohl nicht der Schlüssel zu nicht-flüssiger Aphasie ist. <i>Neurologie & Rehabilitation</i>, 17(5–6), 268–268.</p>
AUDIOVISUAL MEDIA	<p>Hübner, J., & Adam-Radmanic, B. (2020). <i>Musik als Brücke zur Verständigung? Neue Wege zur Behandlung von Sprachstörungen nach einem Schlaganfall</i>. Interview published by Kortizes—Institut für populärwissenschaftlichen Diskurs, Nuremberg, Germany.</p> <p>Schendel, K. (2020). <i>Sind musikgestützte Interventionen bei Aphasie und Depression nach Schlaganfall wirksam?</i> Interview published by SanftMut, Berlin, Germany.</p> <p>Bernstein, M. (2019). <i>Aphasie—im Takt</i>. Documentary feature published by bernsteinfilm, Munich, Germany.</p> <p>Berscheid, L.-C., & Stahl, B. (2018). <i>Leben nach Schlaganfall: Aphasie und Depression</i>. Documentary feature published by the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.</p>
ACADEMIC THESES	<p>Stahl, B. (2013). <i>Treatment of non-fluent aphasia through melody, rhythm and formulaic language</i>. In MPI Series in Human Cognitive and Brain Sciences: Vol. 146. Leipzig, Germany: Max Planck Institute for Human Cognitive and Brain Sciences.</p>
EDITORIAL EXPERIENCE	<p>Lucchese, G., Garagnani, M., & Stahl, B. (Editors). Bridging the Gap between Basic and Clinical Neuroscience: How Behavioral, Molecular and Computational Research Can Promote Care of Mental and Neurological Disorders. <i>Psychiatry International</i> [currently reviewing contributions].</p>
Key Research Areas	<p>Clinical psychology and integrative psychotherapy Neurology and speech-language therapy Music in psychotherapy and speech-language therapy Treatment of post-stroke depression in individuals with aphasia Neuroscience of verbal communication</p>