

Curriculum vitae

Apl. Prof. Dr. rer. nat. Daniela Sammler**Current affiliation**

Max Planck Institute for Empirical Aesthetics
 Research Group Neurocognition of Music and Language
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Academic Appointments

01/2025–present	Adjunct (“apl.”) Professor of Psychology at Goethe University Frankfurt, am Main Germany
10/2020–present	Research Group Leader (W2, tenure) , Neurocognition of Music and Language, Max Planck Institute for Empirical Aesthetics, Frankfurt am Main, Germany
07/2013–09/2020	Research Group Leader , Otto Hahn Group Neural Bases of Intonation in Speech and Music, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
07/2014–10/2014	Visiting researcher , Western Sydney University, MARCS Institute for Brain, Behaviour and Development, Sydney, Australia
10/2011–06/2013	Visiting researcher , University of Glasgow, School of Psychology and Centre for Cognitive Neuroimaging (CCNi), Glasgow, Scotland, UK
04/2009–09/2011	Postdoctoral researcher , Department of Neuropsychology, MPI for Human Cognitive and Brain Sciences, Leipzig, Germany
04/2008–03/2009	Postdoctoral researcher , Université Nord-de-France, Lille and Hôpital de la Pitié-Salpêtrière, Paris, France
04/2004–03/2008	PhD student , Max Planck Research Group Neurocognition of Music, MPI for Human Cognitive and Brain Sciences, Leipzig, Germany

Education

02/2022	Venia Legendi in Psychology at Goethe University Frankfurt am Main, Germany
01/2018	Habilitation and Venia Legendi in Psychology at Leipzig University “The melodic mind: Neural bases of intonation in speech and music”
11/2008	Dr. rer. nat. in Psychology at Leipzig University (summa cum laude) “The neuroanatomical overlap of syntax processing in music and language: Evidence from lesion and intracranial ERP studies”
04/2004	Diploma in Psychology at Leipzig University (with distinction, 1.1)
06/2000	Licence in Psychology, Université Louis Pasteur, Strasbourg, France
07/1997	Abitur (with distinction, 1.0)

Awards and honours

2026	Anne Cutler International Visiting Fellowship, MARCS Institute for Brain, Behaviour & Development, Western Sydney University, Sydney, Australia
2012	Gold Medal for outstanding achievements in the preservation of historic monuments in Europe, 10 th denkmal (Europe's Leading Trade Fair for Conservation, Restoration and Old Building Renovation), Leipzig, Germany
2010	Otto Hahn Medal of the Max Planck Society
2010	Otto Hahn Award of the Max Planck Society
2010	Poster Award, 16 th Annual Meeting of the Organization of Human Brain Mapping

Shortlisting

2019	Endowed Professorship (W2) for Early Language Development (Marga and Walter Boll Foundation), Charité Universitätsmedizin Berlin, Germany
2018	Full Professorship (A99) for Psycholinguistics, University of Vienna, Austria
2017	Full Professorship (A98) for General Psychology, Alpen Adria University Klagenfurt, Austria
2016	Full Professorship (W2) for Social and Clinical Neuroscience, TU Dresden, Germany

Memberships

Society for the Neurobiology of Language (SNL) — Secretary (2023 to 2025)
 Society for Music Perception and Cognition (SMPC)
 Deutsche Gesellschaft für Sprachwissenschaft (DGfS) [German Society for Linguistics]
 Deutsche Gesellschaft für Psychologie (DGPs) [German Society for Psychology]
 Deutscher Hochschulverband (DHV) [German Academic Association]

Research Administration

since 2024	Member of the board of directors, Cooperative Brain Imaging Center (CoBIC), Frankfurt am Main
since 2023	Elected scientific staff member of the Humanities & Social Sciences Section of the Max Planck Society
since 2016	Member of the Ethics Council of the Max Planck Society
2013–2022	Associate Faculty Member, International Max Planck Research School (IMPRS) NeuroCom
2013–2019	Elected scientific staff member of the Humanities & Social Sciences Section of the Max Planck Society

Ad-hoc reviewing

Funding agencies	Agence Nationale de la Recherche (ANR), Alexander von Humboldt Foundation, German Research Foundation (DFG), European Research Council (ERC), National Science and Engineering Council of Canada
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	(NSERC), National Science Foundation USA (NSF), National Science Centre Poland (NCN), Portuguese Foundation for Science and Technology (FCT), Pro Niedersachsen, Swiss National Science Foundation (SNSF), Wellcome Trust
Editorial Board	Brain Sciences (2018–2020); Evolutionary Linguistic Theory (2019–present); Frontiers in Psychology–Auditory Cognitive Neuroscience (2011–present); Music & Science (2018–present); Royal Society Open Sciences (2021–present); Music Perception (2024–present)
Journals Neuroscience	BMC Neuroscience; BMC Pilot and Feasibility Studies; Behavioural Brain Research; Brain; Brain Research; Brain Structure and Function; Brain Topography; Cerebral Cortex; Cerebral Cortex Communications; Cognitive Neurodynamics; Cognitive Neuroscience; Consciousness and Cognition; Cortex; Current Biology ; eLife ; Frontiers in Auditory Cognitive Neuroscience; Human Brain Mapping; International Journal of Psychophysiology; iScience; Journal of Cognitive Neuroscience; Journal of Neurophysiology; Journal of Neuroscience; Nature Communications ; Nature Reviews Neuroscience ; Nature Scientific Reports; NeuroImage; Neuropsychologia; Neuroscience; PloS ONE; PloS Biology; PNAS; Psychophysiology; Science ; Science Advances ; Social Cognitive and Affective Neuroscience
General Psychology	Annals of the New York Academy of Sciences; Behavior Research Methods; Cognition; Learning and Instruction; Philosophical Transactions of the Royal Society B; Quarterly Journal of Experimental Psychology; Royal Society Open Science
Linguistics	Aphasiology; Brain and Language; Language, Cognition and Neuroscience; Journal of Memory and Language; Neurobiology of Language
Music cognition	Music Perception; Music & Science; Psychomusicology
Conferences	Human Brain Mapping (HBM), Society for Neurobiology of Language (SNL), Society for Music Perception and Cognition (SMPC), EvoLang
PhD theses (14)	University of Trento (Italy), University of Turku and University of Helsinki (Finland), University of Melbourne and University of Queensland (Australia), University of Amsterdam and University of Groningen (The Netherlands), Université Claude Bernard Lyon 1 and Aix-Marseille University (France), Goethe University Frankfurt and Gießen University (Germany), Concordia University Montréal (Canada), ETH Zurich (Switzerland)
Academic promotions	Technical University Dresden, Germany; Stony Brook University, NY, USA; Vanderbilt University School of Medicine, TN, USA

Selected national and international collaboration partners

Neurocognition of Language & Communication

Dr. Tirza Biron	Weizmann Institute of Science, Rehovot, Israel
Prof. S. Falk	Université de Montréal, Montréal, Canada
Prof. S. A. Kotz	Maastricht University, Maastricht, The Netherlands
Prof. Y. Nan	Beijing Normal University, China
Prof. T. Overath	Duke University, Durham, NC, USA

Neurocognition of Music

Prof. R. Bianco	Università di Pisa, Pisa, Italy
Prof. P. E. Keller	Center for Music in the Brain, Aarhus University, Denmark
Dr. G. Novembre	Istituto Italiano di Tecnologia, Rome, Italy
Prof. T. Särkämö	University of Helsinki, Helsinki, Finland
Prof. P. Vanzella	Universidade Federal do ABC, Santo André, Brazil

Publications

Metrics (as of 23 October 2026)

h-index:	29 (Web of Science), 37 (Google Scholar)
number of citations:	3741 (Web of Science), 7885 (Google Scholar)
cumulative IF:	352 (Web of Science, Journal Citation Reports)

Books and chapters

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1. **Sammler, D.** (Ed.) (under contract). *The Oxford Handbook of Language and Music*. Oxford University Press. <https://academic.oup.com/edited-volume/59773>
 2. **Sammler, D.** (2026). Musik und Sprache: Neurokognitive Aspekte. In: F. Wißmann, B. Alge, & W. Auhagen (Eds.). *Was ist Musik? Begriff – Konzept – Kulturelle Praxis*. (Kompendien Musik, Bd. 1; pp. 137–147). Laaber-Verlag.
 3. Lê-Hoa Võ, M., Fiebach, C., Shing, Y. L., **Sammler, D.**, Windmann, S., Kaiser, J. (Eds.). (2025). *TeaP 2025: Abstracts of the 67th Conference of Experimental Psychologists*. Pabst Science Publishers.
 4. **Sammler, D.** (2018). *The melodic mind: Neural bases of intonation in speech and music*. (MPI Series in Human Cognitive and Brain Sciences, Vol. 195). Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences. [Habilitation thesis]
 5. **Sammler, D.** (2017). Neurophysiologische Aspekte des Singens. In: M. Fuchs (Ed.). *Die Stimme im pädagogischen Alltag*. (pp. 187–196). Logos-Verlag.
 6. **Sammler, D.** (2009). *The neuroanatomical overlap of syntax processing in music and language: Evidence from lesion and intracranial ERP studies*. (MPI Series in Human Cognitive and Brain Sciences, Vol. 108). Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences. [PhD thesis]

Edited Special Issues (OA: Open Access; IF: impact factor)

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7. **Sammler, D.**, Elmer, S. (2020). Advances in the neurocognition of music and language. *Brain Sciences*, 10, 509. [OA] [IF 2020: 3.39]
 8. Hartwigsen, G., Scharinger, M., **Sammler, D.** (2018). Modulating cortical dynamics in language, speech, and music. *Frontiers in Integrative Neuroscience*, 12, 58. [OA] [IF 2019: 2.15]

Commentaries

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9. **Sammler, D.** (2024). Signatures of speech and song: “Universal” links despite cultural diversity. *Science Advances*, 10, eadp9620. [OA] [IF 2025: 13.90]
 10. **Sammler, D.** (2020). Splitting speech and music. *Science*, 367(6481), 974–976. [IF 2020: 47.73]

Five selected publications (peer reviewed) (°student author)

-
11. Baek, S.-C.°, Kim, S.-G.°, Grigutsch, M., Maess, B., **Sammler, D.** (2026). Dynamic acoustic-to-categorical representations of phonemes and prosody along ventral and dorsal speech streams. *Nature Communications*, 17, 6082. [OA] [IF 2025: 18.10]
 12. Kohler, N.°, Novembre, G., Gugnowska, K.°, Keller, P. E., Villringer, A., **Sammler, D.** (2023). Cortico-cerebellar audio-motor regions coordinate self and other in musical joint action. *Cerebral Cortex*, 33, 2804–2822. [OA] [IF 2023: 2.90]

13. Bianco, R.[°], Novembre, G., Ringer, H.[°], Kohler, N.[°], Keller, P. E., Villringer, A., **Sammler, D.** (2022). Lateral prefrontal cortex is a hub for music production from structural rules to movements. *Cerebral Cortex*, 32(18), 3878–3895. [OA] [IF 2022: 3.70]
14. **Sammler, D.**, Grosbras, M.-H., Anwander, A., Bestelmeyer, P. E. G., Belin, P. (2015). Dorsal and ventral pathways for prosody. *Current Biology*, 25, 3079–3085. [OA] [IF 2015: 8.98]
15. **Sammler, D.**, Grigutsch, M., Fritz, T., Koelsch, S. (2007). Music and Emotion: Electrophysiological correlates of the processing of pleasant and unpleasant music. *Psychophysiology*, 44, 293–304. [IF 2007: 3.35] **2nd most cited paper in Psychophysiology**

Publications in peer reviewed journals (continued) (*equal contribution, [°]student author)

16. Larrouy-Maestri, P., Ringer, H.[°], Poeppel, D., **Sammler, D.** (2027). The role of pitch in the vocal communication of intentions. *Cognition*, 278, 106714. [OA] [IF 2025: 3.1]
17. Talamini, F., Grassi, M. & MusicEnsemble (2026). Music Ensemble: A large dataset on musicianship, cognition, and personality in musicians and nonmusicians. *Scientific Data*, 13, 143. [OA] [IF 2025: 7.20]
18. Grassi, M., Talamini, F. & MusicEnsemble (2025). Do musicians have a better short-term memory than nonmusicians? A multi-lab study. *Advances in Methods and Practices in Psychological Science*, 8(4), 25152459251379432. [OA] [IF 2024: 14.60]
19. Kohler, N.*[°], Czepiel, A. M.*[°], de Manzano, Ö., Novembre, G., Keller, P. E., Villringer, A., **Sammler, D.** (2025). Distinct and content-specific neural representations of self- and other-produced actions in joint piano performance. *Frontiers in Human Neuroscience*, 19, 1543131. [OA] [IF 2025: 3.60]
20. Sierpowska, J., Grau-Sánchez, J., Sihvonen, A. J., Ramos-Escobar, N., Camins, A., Gabarrós, A., **Sammler, D.**, Rodríguez-Fornells, A. (2025). Music and affective prosody after surgical removal of the right arcuate fasciculus: A case study. *Annals of the New York Academy of Sciences*, 1552(1), 314–325. [OA] [IF 2025: 4.50]
21. Martins, M. D., Bergmann, Z., Leonova, E., Bianco, R., **Sammler, D.**, Villringer, A. (2025). Acquisition and utilization of recursive rules in motor sequence generation. *Cognitive Science*, 49, e70108. [OA] [IF 2025: 2.50]
22. Ringer, H., **Sammler, D.**, Daikoku, T. (2025). Neural tracking of auditory statistical regularities is reduced in adults with dyslexia. *Cerebral Cortex*, 35(2), bhaf042. [OA] [IF 2025: 3.00]
23. Mikutta, C. A., Knight, R. T., **Sammler, D.**, Müller, T. J., Koenig, T. (2024). Electrographic activation patterns during electroencephalographic microstates. *Brain Topography*, 37(2), 287–295. [OA] [IF 2024: 2.90]
24. Tomasello, R., Grisoni, L., Boux, I., **Sammler, D.**, Pulvermüller, F. (2022). Instantaneous neural processing of communicative functions conveyed by speech prosody. *Cerebral Cortex*, 32(21), 4885–4901. [OA] [IF 2022: 3.70]
25. Gugnowska, K.[°], Novembre, G., Kohler, N.[°], Villringer, A., Keller, P. E., **Sammler, D.** (2022). Endogenously driven interbrain synchrony during joint piano playing. *Cerebral Cortex*, 32(18), 4110–4127. [OA] [IF 2022: 3.70]
26. Sihvonen, A. J., **Sammler, D.**, Ripollés, P., Leo, V., Rodríguez-Fornells, A., Soinila, S., Särkämö, T. (2021). Right ventral stream damage underlies both post-stroke aprosodia and amusia. *European Journal of Neurology*, 29(3), 873–882. [IF 2021: 6.29]
27. Herrojo Ruiz, M., Maudrich, T., Kalloch, B., **Sammler, D.**, Kenville, R., Villringer, A., Sehm, B., Nikulin, V. (2021). Modulation of neural activity in frontopolar cortex drives reward-based motor learning. *Scientific Reports*, 11, 20303. [OA] [IF 2021: 5.00]

28. Chien, P.-J.°, Friederici, A. D., Hartwigsen, G.*, **Sammler, D.*** (2021). Intonation processing increases task-specific fronto-temporal connectivity in tonal language speakers. *Human Brain Mapping, 42*, 161–174. [OA] [IF 2021: 5.04]
29. Chien, P.-J.°, Friederici, A. F., Hartwigsen, G.*, **Sammler, D.*** (2020). Neural correlates of intonation and lexical tone in tonal and non-tonal language speakers. *Human Brain Mapping, 41*, 1842–1858. [OA] [IF 2020: 5.04]
30. Torppa, R., Faulkner, A., Laasonen, M., Lipsanen, J., **Sammler, D.** (2020). Links of prosodic stress perception and musical activities to language skills of children with CIs and normal hearing. *Ear and Hearing, 41*, 395–410. [OA] [IF 2020: 3.57]
31. Harding, E. E.°, **Sammler, D.**, Kotz, S. A. (2019). Attachment preference in auditory German sentences: Individual differences and pragmatic strategy. *Frontiers in Psychology, 10*, 1357. [OA] [IF 2019: 2.07]
32. Martins, M. J. D.*, Bianco, R.*°, **Sammler, D.**, Villringer, A. (2019). Recursion in action: An fMRI study on the generation of new hierarchical levels in motor sequences. *Human Brain Mapping, 40*, 2623–2638. [OA] [IF 2019: 4.42]
33. Vanzella, P., Balardin, J. B., Furucho, R. A., Zimeo Morais, G. A., Braun Janzen, T., **Sammler, D.**, Sato, J. R. (2019). fNIRS responses in professional violinists while playing duets: Evidence for distinct leader and follower roles at brain level. *Frontiers in Auditory Cognitive Neuroscience, 10*, 164. [OA] [IF 2019: 2.07]
34. Harding, E. E.°, **Sammler, D.***, Henry, M. J.*, Large, E., Kotz, S. A. (2019). Cortical tracking of rhythm in music and speech. *NeuroImage, 185*, 96–101. [IF 2019: 5.90]
35. Hellbernd, N.°, **Sammler, D.** (2018). Neural bases of social communicative intentions in speech. *Social Cognitive and Affective Neuroscience, 13*, 604–615. [OA] [IF 2018: 3.66]
36. Bianco, R.°, Novembre, G., Keller, P. E., Villringer, A., **Sammler, D.** (2018). Musical genre-dependent behavioural and EEG signatures of action planning. A comparison between classical and jazz pianists. *NeuroImage, 169*, 383–394. [IF 2018: 5.81]
37. Sun, Y., Lu, X., Ho, H. T., Johnson, B. W., **Sammler, D.**, Thompson, W. F. (2018). Syntactic processing in music and language: parallel abnormalities observed in congenital amusia. *NeuroImage Clinical, 19*, 640–651. [OA] [IF 2018: 3.94]
38. **Sammler, D.**, Cunitz, K.°, Gierhan, S. M. E., Anwender, A., Adermann, J., Meixensberger, J., Friederici, A. D. (2018). White matter pathways for prosodic structure building: A case study. *Brain and Language, 183*, 1–10. [IF 2018: 2.70]
39. Speck, I. K., Echternach, M., **Sammler, D.**, Schulze-Bonhage, A. (2018). Frontal lobe epileptic seizures are accompanied by elevated pitch during verbal communication. *Epilepsia, 59*, e23–e27. [IF 2018: 5.56]
40. Hellbernd, N.°, **Sammler, D.** (2016). Prosody conveys speaker's intentions: Acoustic cues for speech act perception. *Journal of Memory and Language, 88*, 70–86. [IF 2016: 3.07]
41. Bianco, R.°, Novembre, G., Keller, P.E., Kim, S.-G., ..., **Sammler, D.** (2016). Neural networks for harmonic structure in music perception and action. *NeuroImage, 142*, 454–464. [IF 2016: 5.84]
42. Merrill, J.°, Bangert, M., **Sammler, D.**, Friederici, A. D. (2016). Classifying song and speech: Effects of focal temporal lesions and musical disorder. *Neurocase, 22*, 496–504. [IF 2016: 0.99]
43. Novembre, G., **Sammler, D.**, Keller, P. E. (2016). Self-other entrainment and co-representation are linked via alpha oscillations in musical joint action. *Neuropsychologia, 89*, 414–425. [IF 2016: 3.20]

44. Bianco, R.^o, Novembre, G., Keller, P. E., Scharf, F.^o, Friederici, A. D., Villringer, A., **Sammler, D.** (2016). Syntax in action has priority over movement selection in piano playing: An ERP study. *Journal of Cognitive Neuroscience*, 28, 41–56. [IF 2016: 3.11]
45. Maffongelli, L., Bartoli, E., **Sammler, D.**, Koelsch, S., Campus, C., Olivier, E., Fadiga, L., D'Ausilio, A. (2015). Distinct brain signatures of content and structure violation during action sequence observation. *Neuropsychologia*, 75, 30–39. [IF 2015: 2.99]
46. Alonso, I.^o, **Sammler, D.**, Valabrègue, R., Dinkelacker, V., Dupont, S., Belin, P., Samson, S. (2014). Hippocampal sclerosis affects fMR-adaptation of lyrics and melodies in songs. *Frontiers in Human Neuroscience*, 8, 111. [OA] [IF 2014: 3.63]
47. Besson, P., Dinkelacker, V., Valabrègue, R., Thivard, L., Leclerc, X., Baulac, M., **Sammler, D.**, Colliot, O., Lehericy, S., Samson, S., Dupont, S. (2014). Structural connectivity differences in left and right temporal lobe epilepsy. *NeuroImage*, 100, 135–144. [IF 2014: 6.36]
48. **Sammler, D.***, Novembre, G.* , Koelsch, S., Keller, P. E. (2013). Syntax in a pianist's hand: ERP signatures of “embodied” syntax processing in music. *Cortex*, 49, 1325–1339. [IF 2013: 6.04]
49. **Sammler, D.**, Koelsch, S., Ball, T., Brandt, A., Grigutsch, M., ..., Schulze-Bonhage, A. (2013). Co-localizing linguistic and musical syntax with intracranial EEG. *NeuroImage*, 64, 134–146. [IF 2013: 6.13]
50. Merrill, J.^o, **Sammler, D.**, Bangert, M., Goldhahn, D., Lohmann, G., Turner, R., Friederici, A. D. (2012). Perception of words and pitch patterns in song and speech. *Frontiers in Psychology*, 3, 76. [OA] [IF 2013: 2.84]
51. **Sammler, D.**, Koelsch, S., Friederici, A. D. (2011). Are left fronto-temporal “language areas” a prerequisite for normal music-syntactic processing? *Cortex*, 47, 659–673. [IF 2011: 6.08]
52. **Sammler, D.**, Baird, A., Valabrègue, R., Clément, S., Dupont, S., Belin, P., Samson, S. (2010). The relationship of lyrics and tunes in the processing of unfamiliar songs: An fMR adaptation study. *The Journal of Neuroscience*, 30, 3572–3578. [IF 2010: 7.27]
53. **Sammler, D.**, Kotz, S. A., Eckstein, K., Ott, D. V. M., Friederici, A. D. (2010). Prosody meets syntax: the role of the corpus callosum. *Brain*, 133, 2643–2655. [IF 2010: 9.23]
54. **Sammler, D.**, Koelsch, S., Ball, T., Brandt, A., ..., Schulze-Bonhage, A. (2009). Overlap of musical and linguistic syntax processing: Intracranial ERP evidence. *Annals of the New York Academy of Sciences*, 1169, 494–498. [IF 2009: 2.67]
55. Fritz, T., Jentschke, S., Gosselin, N., **Sammler, D.**, ..., Koelsch, S. (2009). Universal recognition of three basic emotions in music. *Current Biology*, 19, 573–576. [IF 2009: 10.99]
56. Koelsch, S., Schulze, K., **Sammler, D.**, Fritz, T., Mueller, K., Gruber, O. (2009). Functional architecture of verbal and tonal memory: An fMRI study. *Human Brain Mapping*, 30, 859–873. [IF 2009: 6.26]
57. Koelsch, S., **Sammler, D.**, Jentschke, S., Siebel, W. A. (2008). EEG correlates of moderate intermittent explosive disorder. *Clinical Neurophysiology*, 119, 151–162. [IF 2008: 2.97]
58. Koelsch, S., **Sammler, D.** (2008). Cognitive components of regularity processing in the auditory domain. *PLoS one*, 3, e2650. [OA] [IF 2009: 4.35]
59. Koelsch, S., Remppis, A., **Sammler, D.**, Jentschke, S., et al. (2007). A Cardiac signature of emotionality. *European Journal of Neuroscience*, 26, 3328–3338. [IF 2007: 3.67]
60. Koelsch, S., Jentschke, S., **Sammler, D.**, Mietchen, D. (2007). Untangling syntactic and sensory processing: An ERP study of music perception. *Psychophysiology*, 44, 476–490. [IF 2007: 3.35]

61. Koelsch, S., Heinke, W., **Sammler, D.**, Olthoff, D. (2006). Auditory processing during deep propofol sedation and recovery from unconsciousness. *Clinical Neurophysiology*, 117, 1746–1759. [IF 2006: 2.72]
62. Koelsch, S., Gunter, T. C., Wittfoth, M., **Sammler, D.** (2005). Interaction between syntax processing in language and in music: An ERP study. *Journal of Cognitive Neuroscience*, 17, 1565–1577. [IF 2005: 4.53]
63. Heinke, W., Kenntner, R., Gunter, T. C., **Sammler, D.**, Olthoff, D., Koelsch, S. (2004). Sequential effects of increasing propofol sedation on frontal and temporal cortices as indexed by auditory event-related potentials. *Anesthesiology*, 100, 617–625. [IF 2004: 4.01]
64. Koelsch, S., Kasper, E., **Sammler, D.**, Schulze, K., Gunter, T., Friederici, A. D. (2004). Music, language and meaning: Brain signatures of semantic processing. *Nature Neuroscience*, 7, 302–307. [IF 2004: 16.98]
65. Scheid, R., Voltz, R., Guthke, T., **Sammler, D.**, von Cramon, D. Y. (2003). Neuropsychiatric findings in anti-MA2-positive limbic encephalitis. *Neurology*, 61, 1159–1160. [IF 2003: 5.68]
66. Koelsch, S., Gunter, T. C., Schröger, E., Tervaniemi, M., **Sammler, D.**, Friederici, A. D. (2001). Differentiating ERAN and MMN: An ERP study. *Neuroreport*, 12, 1385–1389. [IF 2001: 2.37]

Publications in conference proceedings (peer reviewed)

67. Kim, S.-G., Alonso-Jiménez, P., Bechtloff, T., **Sammler, D.**, Bogdanov, D. (2025). ManyMusic: An open-access music audio dataset for human experiments on musical emotions. *HCMIR25: 3rd Workshop on Human-Centric Music Information Research*, 20th September 2025, Daejeon, Republic of Korea.

Publications in German scientific journals

68. **Sammler, D.** (2016). Musik- und Sprachwahrnehmung bei Epilepsiepatienten. *Zeitschrift für Epileptologie*, 29, 16–20.
69. **Sammler, D.** (2014). Prosodie – Die Musik der Sprache. *LogoTHEMA*, 11, 9–13.
70. **Sammler, D.** (2011). Amusie und Sprachstörungen. *Sprachheilarbeit*, 56, 194–197.

Manuscripts under peer review or uploaded as preprint (*equal contribution, °student author)

71. Baek, S.-C.°, Kim, S.-G.°, Maess, B., Grigutsch, M. (bioRxiv, 2026). Pitch motor areas contribute to the perception of prosodic categories in speech.
72. Harding, E. E.°, **Sammler, D.**, Kotz, S. A. (bioRxiv, 2023). The syntax-meter interface in spoken language and music: Same, different, or individually variable?
73. Hinrichs, N., Triesch-Herrmann, S., de Andrade, H., Belcavello, F., Timponi Torrent, T., **Sammler, D.***, Hartwigsen, G.* (PsyArXiv, 2025). Mapping the semantic-pragmatic continuum: Cognitive and neurolinguistic insights.
74. van Welzen, K.°, Knoop, C., Dolan, D., **Sammler, D.**, Ullén, F., de Manzano, Ö. (under review). Seeing creativity differently: Occipital correlates of musical and verbal improvisation.

Manuscripts in preparation for peer review (*equal contribution, °student author)

75. Cancio Pastor, T.°, Chien, P.-J.°, Just, A.°, Kiesel, Y.°, Hellbernd, N.°, Nan, Y., **Sammler, D.** (forthcoming). Intentions in prosody: A cross-cultural comparison of German and Mandarin Chinese.

76. Kim, S-G.°, Overath, T., **Sammler, D.** (forthcoming). Representational gradients of musical information and evoked emotions revealed by CNN.
77. Baek, S.-C.°, Passmann, S.°, Zotschew, T.°, Dotzer, M.°, Matin, E.°, Hartwigsen, G.°, **Sammler, D.*** (forthcoming). Vocal pitch perception in right premotor cortex: A chronometric TMS study.
78. **Sammler, D.***, Govaart, G. H.°, Bianco, R.°, Novembre, G., Keller, P. E. (forthcoming). A hierarchical predictive approach to action observation and imitation: Synergies of movement kinematics and structural context in music.

Talks, Posters, Conferences

Keynote Talks (7)

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| 09/2026 | [Keynote] “Scaling up or scaling down? How to best study language, music, and the brain?”, Advances in the Cognition of Music and Language Symposium, MARCS Institute for Brain, Behaviour and Development, Western Sydney University, Australia. |
| 07/2025 | [Keynote] “Solo and duet: Neural bases of music production”, International Conference for Music Perception and Cognition (ICMPC 18), São Paulo, Brazil. |
| 07/2023 | [Keynote] “The brain on prosody: Linking language, speech and music”, Musical Minds Workshop, Universität Konstanz, Germany. |
| 05/2023 | [Keynote] “Solo and duet: How the brain plays music”, CRBLM Scientific Day, Montréal, Canada. |
| 06/2022 | [Keynote] “The melodic mind: Neural bases of speech prosody and music”, 42 nd TABU Dag 2022, University of Groningen, The Netherlands. |
| 10/2021 | [Keynote] “Neuronale Schnittstellen von Musik und Sprache” [“Neural links between music and language”], 10. Fachtag der Arbeitsgemeinschaft “Singen-Bewegen-Sprechen” des Landesverbandes der Musikschulen und Landesmusikverbandes Baden-Württemberg, Schwäbisch-Gmünd, Germany. |
| 05/2021 | [Keynote] “Solo and duet: Neural bases of piano performance”, 15 th Symposium on Cognition and Musical Arts (SIMCAM), Rio Grande do Sul, Brazil. (virtual) |

Conference Talks (34) & Invited Talks at Universities and Research Institutes (67)

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| 11/2026 | [Conference Talk] “Let the music play! Hirngesundheit und Musik”, Invited talk at DGN-Kongress 2026, Berlin, Germany. |
| 09/2026 | [Invited Talk] “The brain on prosody: From intonation to meaning”, Talk as Anne Cutler International Visiting Fellow at MARCS Institute for Brain, Behaviour and Development, Western Sydney University, Australia. |
| 06/2026 | [Symposium Talk] “Psychological theories and findings on affective voice perception in the brain”, Symposium on Affective Voice Perception and Synthesis, MPI for Empirical Aesthetics, Frankfurt/Main, Germany. |
| 06/2026 | [Conference Talk] “Coordinating brains and bodies during social musical interactions”, OHBM 2026, Bordeaux, France. |
| 03/2026 | [Invited Talk] “The brain’s beat: How humans connect through music”, Opening Symposium, Kronberg Institute for Music and Health, Kronberg Academy, Germany. |
| 12/2025 | [Invited Talk] “Solo and duet: Neural bases of music production”, Institute Colloquium, University Kassel, Kassel, Germany. |

- 12/2025 [Invited Talk] "Music production in dyads: Prediction and neural processes in the coordination of self and other", Music-Speech-Brain Symposium, Aix-Marseille University, Marseille, France.
- 11/2025 [Invited Talk] "Songs im Gehirn: Neuronale Grundlagen der Songwahrnehmung und -produktion", Seminar Physiologie und Pathologie der Singstimme, University of Bonn, Germany
- 11/2025 [Invited Talk] "Solo and duet: Neural bases of music production", Cognitive Science Colloquium, RPTU Kaiserslautern-Landau, Kaiserslautern, Germany.
- 05/2025 [Invited Talk] "Synchronizing brains and bodies: Behavioural and neural mechanisms of joint music performance", FIAS Neuroscience Seminar, Frankfurt/M., Germany.
- 03/2025 [Conference] "Recognizing social communicative intentions in the voice: A cross-cultural comparison", TeaP 2025, Frankfurt/M., Germany.
- 02/2025 [Invited Talk] "Neural bases of prosody: Linking language, speech, and music", International Neurodynamics of Language and Music Symposium, University of Helsinki, Finland.
- 10/2024 [Invited Talk] "Neurokognition von Musik und Sprache", Hochschule für Musik und Darstellende Kunst Frankfurt am Main (HfMDK), Germany.
- 10/2024 [Invited Talk] "Neural bases of music production", MARCS Institute, Western Sydney University, Australia.
- 10/2024 [Invited Talk] "Neural representations of prosody: Linking language, speech, and music", MARCS Institute, Western Sydney University, Australia.
- 06/2024 [Invited Talk] "Neural bases of action planning: Lessons from solo and joint piano performance", Seoul National University, South Korea.
- 05/2024 [Invited Talk] "Synchronizing brains and bodies during joint music performance: Behavioural and neural mechanisms", AI Center, The University of Tokyo, Japan. (virtual)
- 02/2024 [Invited Talk] "The neural bases of piano playing: From musical ideas to joint performance", Brain Hygge Series, Center for Music in the Brain, Aarhus University, Denmark.
- 02/2024 [Invited Talk] "How the brain plays music: From musical ideas to joint performance", Music and Brain Seminar, Department of Music, Stanford University, USA. (virtual)
- 01/2024 [Invited Talk] "The brain on prosody: Linking language, speech and music", Ringvorlesung Sprache und Musik, Heinrich Heine University Düsseldorf, Germany.
- 12/2023 [Invited Talk] "How the brain plays music: From musical ideas to joint performance", Collegium Musicologicum, Humboldt University, Berlin, Germany.
- 11/2023 [Invited Talk] "Dissociating sensory and cognitive neural processes in the coordination of self and other", Workshop on Interpersonal Action Coordination: From Description to Mechanisms, Max Planck Institute for Human Development, Berlin, Germany.
- 10/2023 [Invited Talk] "The brain on prosody: From contour to meaning", Lunch Talk Series, Institut de Neurosciences de la Timone, Marseille, France.
- 08/2023 [Conference] "Predictions in action planning in solo and joint music performance", ICMPC17 / APSCOM7, Tokyo, Japan.
- 07/2023 [Invited Talk] "Prosodic representations: Behavioural, neural and cross-cultural perspectives", Ringvorlesung des Graduiertenkollegs 2700, Philipps-Universität Marburg, Germany.

- 04/2023 [Invited Talk] “Solo and duet: Neural bases of solo and joint piano performance”, Brain and Culture Lecture, Karolinska Institutet, Stockholm, Sweden. (virtual)
- 04/2023 [Invited Talk] “Music in the brain”, Colloquium, Max Planck Florida Institute for Neuroscience, Jupiter, FL, USA.
- 01/2023 [Invited Talk] “Cognition meets music: Neural bases of piano performance”, Braintalks Series, Friedrich Schiller University, Jena, Germany.
- 10/2022 [Invited Talk] “Solo and duet: Neural bases of piano performance”, Colloquium, Italian Institute of Technology, Rome, Italy.
- 09/2022 [Invited Talk] “The melodic mind: Neural bases of speech prosody and music”, Neuroscience Colloquium, Universidade Federal do ABC, Sao Paulo, Brazil (virtual).
- 05/2022 [Invited Talk] “From sound to meaning: The neuropragmatics of prosody”, Linguistics Colloquium, University of Konstanz, Germany.
- 02/2022 [Conference] “The social function of speech prosody: Insights from neuropragmatics”, Biocultural foundations of music, Humboldt University Berlin, Germany. (virtual)
- 01/2022 [Invited Talk] “Making sense of social sound: The neuropragmatics of prosody”, Dahlem Lectures of Linguistics, Free University Berlin, Germany. (virtual)
- 01/2022 [Conference] “Solo and duet: Neural bases of piano performance”, SocialBRIDGES e-conference, Munich-Aarhus-Maastricht-Frankfurt/M., Germany. (virtual)
- 09/2021 [Conference] “Neural bases of tone and intonation perception in Mandarin Chinese”, 20th World Congress of Psychophysiology (IOP 2021), Chengdu, China. (virtual)
- 06/2021 [Invited Talk] “Solo and duet — Neural bases of piano performance”, CLAME Colloquium, Max Planck – NYU Center for Language, Music, and Emotion (CLAME), New York University, USA. (virtual)
- 06/2021 [Invited Talk] “Neurocognition of music and language”, 6th Biannual meeting of the Rhine Main Neuroscience Network (rmn2), Frankfurt/M., Germany. (virtual)
- 02/2021 [Invited Talk] “Playing music in the scanner: Neural bases of piano performance”, CBRU Colloquium, University of Helsinki, Finland. (virtual)
- 11/2020 [Invited Talk] “Music in the brain: Neural bases of piano performance”, Colloquium of International Research Center for Neurointelligence, University of Tokyo, Japan. (virtual)
- 03/2020 [Invited Talk] “Neuronale Grundlagen der Prosodieverarbeitung”, Jahrestreffen der ständigen Konferenz der Dozentinnen und Dozenten der Sprachheilpädagogik, Martin Luther University Halle-Wittenberg, Germany.
- 12/2019 [Invited Talk] “Setting the tone: Neural bases of prosody”, Colloquium, University of Potsdam, Germany
- 11/2019 [Conference] “Setting the tone: Neural bases of prosody”, Satellite Symposium GABi, 19. Jahrestagung der Gesellschaft für Aphasieforschung und –behandlung GAB, Leipzig, Germany.
- 08/2019 [Invited Talk] “Neural bases of music production: From musical ideas to action”, Seminar, Helsinki Summer School in Cognitive Neuroscience, Helsinki, Finland.
- 06/2019 [Conference] “Representation of vocal prosodic contours in laryngeal premotor cortex”, Psychology and Brain, Dresden, Germany.
- 03/2019 [Conference] “Neural bases of music production: EEG and fMRI evidence for a hierarchy of musical action planning in expert pianists”, 21st Congress of Japan Human Brain Mapping Society, Tokyo, Japan.

- 03/2019 [Conference] “The neuropragmatics of prosody – from contour to meaning”, 41st Annual Conference of the German Linguistic Society, Bremen, Germany.
- 11/2018 [Invited Talk] “Neuropragmatics of prosody: from contour to meaning”, MAMPF Colloquium, Ludwig Maximilians University Munich, Germany.
- 11/2018 [Invited Talk] “Prosodie – Schnittpunkt zwischen Musik und Sprache”, Tag der Sprachforschung, Martin Luther University Halle-Wittenberg, Germany.
- 09/2018 [Invited Talk] “Hirnprozesse während des Klavierspielens: Von der musikalischen Idee zur Handlung”, Seminar, Claussen-Simon-Stiftung, Ratzeburg, Germany
- 07/2018 [Conference] “Pathways for Prosody”, Workshop, Crossing boundaries: On sensorimotor and cognitive systems, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 05/2018 [Invited Talk] “Musical action planning in expert pianists”, Seminar, Institute for Music in Human and Social Development, University of Edinburgh, UK.
- 04/2018 [Conference] “Neuropragmatics of prosody: from contour to meaning”, Workshop, Neurophonetics: Representing and processing phonetic units in the brain, Philipps-University Marburg, Germany.
- 02/2018 [Invited Talk] “The Melodic Mind: Neural bases of intonation in speech and music”, Spring School on Language, Music and Cognition: Organizing Events in Time, University of Cologne, Germany.
- 12/2017 [Invited Talk] “The Melodic Mind: Neural bases of intonation in speech and music”, Seminar, University Zurich, Switzerland.
- 02/2017 [Invited Talk] “Musical action planning in expert pianists”, Seminar, Goldsmiths, University of London, UK.
- 01/2017 [Invited Talk] “Voice or words – the neural contribution of prosody to communication”, Seminar, Brain Language Laboratory, Free University Berlin, Germany.
- 10/2016 [Invited Talk] “Motor planning in expert pianists – the special role of musical syntax”, Lecture, Dresden Music Cognition Lab, Technical University Dresden, Germany.
- 08/2016 [Invited Talk] “Neural networks of music perception and production – the special role of syntax”, Seminar, Helsinki Summer School in Cognitive Neuroscience, Helsinki, Finland.
- 05/2016 [Invited Talk] “Neural bases of speech prosody”, Colloquium, Bonn Lecture Series in Neuroscience, University Hospital Bonn, Germany.
- 02/2016 [Conference] “Neurophysiologie des Singens“, 14. Leipziger Symposium zur Kinder- und Jugendstimme, Leipzig, Germany.
- 11/2015 [Conference] “Music and action – windows into the origins of language?”, International Workshop on Theory of Language and the Debate on Language Origins, University of Trento, Italy.
- 10/2015 [Conference] “Dual streams for prosody in the right hemisphere”, 7th Annual Meeting of the Society for the Neurobiology of Language, SNL 2015, Chicago, IL, USA.
- 12/2015 [Invited Talk] “Voice or words – the neural contribution of prosody to communication”, Seminar, School of Psychology, Bangor University, Wales, UK.
- 12/2015 [Invited Talk] “The brain basis for music and language – in search of common roots”, Seminar, Faculty of Behavioral Sciences, University of Helsinki, Finland.
- 11/2015 [Invited Talk] “Aesthetic dialogue – Understanding the unsaid”, Workshop on The Future of Empirical Aesthetics, Max Planck Institute for Empirical Aesthetics, Frankfurt/Main, Germany.

- 09/2015 [Conference] "Syntax in a pianist's hand – principles of motor planning in expert pianists", International Conference of Students of Systematic Musicology, SysMus 2015, Leipzig, Germany.
- 07/2015 [Invited Talk] "The music of speech: Fractionating prosody", Seminar, IMPRS Summer School, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 07/2015 [Invited Talk] "Pathways for prosody", Colloquium, Neurocentre, University Hospital Freiburg, Germany.
- 04/2015 [Conference] "Music and language: Evidence from patients with epilepsy", Gemeinsame Jahrestagung der Deutschen und Österreichischen Gesellschaften für Epileptologie und der Schweizerischen Liga gegen Epilepsie, Dresden, Germany.
- 03/2015 [Conference] "Fractionating prosody – pathways and mechanisms", SMART conference, Amsterdam, The Netherlands.
- 11/2014 [Conference] "Musik und früher Spracherwerb", Fachtagung der Stiftung Zuhören und des Hessischen Rundfunks 2, "Chancen der sprachlichen Vielfalt nutzen!", Wiesbaden, Germany.
- 08/2014 [Invited Talk] "Neural pathways for prosody", Colloquium, MARCS Institute, University of Western Sydney & Centre of Excellence in Cognition and its Disorders, Macquarie University, Sydney, Australia.
- 07/2014 [Conference] "Dorsal and ventral pathways for prosody", 12th International Conference on Cognitive Neuroscience (ICON), Brisbane, Australia.
- 03/2014 [Conference] "Prosody perception in the laryngeal premotor cortex", Tagung experimentell arbeitender Psychologen 2014 (TeaP), Gießen.
- 03/2014 [Conference] "Prosody perception in laryngeal premotor cortex", 36th Annual Conference of the German Linguistic Society, Marburg University, Marburg/Lahn, Germany.
- 11/2013 [Conference] "Prosody perception in the laryngeal premotor cortex", SNL 2013 Annual Meeting, San Diego, California, USA.
- 11/2013 [Invited Talk] "Neuronale Entschlüsselung von prosodisch kodierten Sprecherabsichten", Seminar, Logopädenfachtagung – Sprachentwicklungsforschung und Logopädie, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 10/2013 [Invited Talk] "Understanding meaning and intentions in speech prosody", Seminar, Department of General Psychology and Cognitive Neuroscience, Friedrich Schiller University, Jena, Germany.
- 06/2013 [Invited Talk] "Understanding meaning and intentions in speech intonation", Colloquium, Institute for Music in Human and Social Development, University of Edinburgh, UK.
- 05/2013 [Invited Talk] "Understanding meaning and intentions in speech intonation", Colloquium, Institute of Neuroscience and Psychology, University of Glasgow, UK.
- 04/2013 [Invited Talk] "Two complementary mechanisms for decoding intentions in speech intonation", Seminar, School of Critical Studies, University of Glasgow, UK.
- 11/2012 [Conference] "Grammatik der Handlung – Parallelen zur Musik- und Sprachverarbeitung", 22. Jahrestagung der DGNR, Nürnberg/Fürth, Germany.
- 09/2012 [Conference] "Prosody meets syntax: localization and connectivity", 16th World Congress of the International Organization of Psychophysiology, Pisa, Italy.
- 09/2012 [Conference] "Shared but not the same: Co-localizing syntax in music and language", Language, music and cognition workshop, University of Cologne, Germany.

- 09/2012 [Invited Talk] “Disintegration of music and language after brain lesion”, EBRAMUS-workshop, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 04/2012 [Conference] “Syntax in a pianist’s hand: ERP signatures of ‘embodied’ syntax processing in music”, Annual meeting of the British Association for Cognitive Neuroscience, Newcastle, UK.
- 02/2012 [Conference] “(Co)Localizing music and language in the human brain with EEG and fMRI”, SIMAL – First international workshop on segregation and integration in music and language, Eberhard Karls University Tübingen, Germany.
- 12/2011 [Invited Talk] “Seminar Berufsfelder – Kognitive Neurowissenschaften”, Seminar, Martin Luther University Halle-Wittenberg, Germany.
- 12/2011 [Invited Talk] “About the relationship of music and language in the human brain”, Colloquium, Institute for Neuroscience and Psychology, University of Glasgow, UK.
- 10/2011 [Conference] “Music and action – prediction through syntax”, SIEMPRE Intermediate Workshop, Italian Institute of Technology, Genoa, Italy.
- 04/2011 [Invited Talk] “Hier spricht die Musik – Über die Beziehung von Musik und Prosodie zur Sprachverarbeitung”, Colloquium, Cognitive Neurology Outpatient Clinic, Leipzig, Germany.
- 02/2011 [Invited Talk] “Music and action: Do they share ‘syntactic’ resources?”, Colloquium, Neuromusic Gesprächskreis, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 05/2011 [Invited Talk] “About the relationship of music and language in the human brain”, Colloquium, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 08/2010 [Conference] “Music and action: Do they share resources?”, ICMPC XI, Seattle, USA.
- 05/2010 [Invited Talk] “Wie das Gehirn Sprache und Musik verarbeitet”, Lecture, Johannes Gutenberg University, Mainz, Germany (together with Angela D. Friederici).
- 04/2010 [Conference] “Co-localizing the processing of music and language in the human brain”, British Psychological Society Annual Conference, Stratford-upon-Avon, UK.
- 08/2009 [Invited Talk] “Neuropsychologie der Sprach- und Musikwahrnehmung”, Invited Workshop, Evangelische Akademie Villigst, Germany.
- 05/2009 [Conference] “Musik und Sprache im menschlichen Gehirn”, 23. Jahrestreffen AK Kinder und Jugendliche der Gesellschaft für Neuropsychologie (GNP), Flehingen, Germany.
- 03/2009 [Invited Talk] “Cortical representation of syntax in language and music”, Symposium “10 Jahre Epileptologie am Universitätsklinikum Freiburg”, Freiburg, Germany.
- 02/2009 [Invited Talk] “Cortical representation of syntax in language and music”, Colloquium, Laboratoire “Neurosciences sensorielles, comportement, cognition”, Lyon, France.
- 05/2007 [Conference] “Comparing linguistic and music syntactic processing by means of subdural recordings”, Language and Music as Cognitive Systems, Cambridge, UK.

Organisation of Conferences, Workshops, and Symposia (7)

- 09/2026 **Sammler, D.** (2026). Advances in the Cognition of Music and Language Symposium. MARCS Institute for Brain, Behaviour and Development, Western Sydney University, Australia.

- 06/2026 Kim, S.-G., **Sammler, D.** (2026). Interdisciplinary workshop on affective voice perception and synthesis. Max Planck Institute for Empirical Aesthetics, Frankfurt/Main, Germany.
- 03/2026 Ecker, C., Kell, C., Rademaker, R., **Sammler, D.**, Vajda, R., van Alphen, N. (2026). CoBIC Scientific Opening Symposium. Goethe University, Frankfurt am Main, Germany.
- 03/2025 Lê-Hoa Võ, M., Fiebach, C., Shing, Y. L., **Sammler, D.**, Windmann, S., Kaiser, J. (2025). TeaP 2025: 67th Conference of Experimental Psychologists, Goethe University Frankfurt, Germany.
- 01/2022 Fairhurst, M., Keller, P. E., Kotz, S. A., **Sammler, D.** (2022). Do-Re-Mi DNA: The biological bases of music. SocialBRIDGES e-conference.
- 08/2015 **Sammler, D.** (2015). The Melodic Mind. Workshop. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 10/2013 **Sammler, D.**, Anwender, A., Belin, P. (2013). CCNI workshop on diffusion-weighted imaging. Workshop. Centre for Cognitive Neuroimaging (CCNi) & Institute of Neuroscience and Psychology (INP), University of Glasgow, UK.

Poster presentations (107)

since 2004 22 posters as first author (19 international)
 since 2006 35 posters as co-author (27 international)
 since 2013 50 posters as senior author (31 international)

Research projects & funding

Selected projects funded by RG Neurocognition of Music and Language (former Otto Hahn Gr.)

2022–present	Temporal dynamics of prosodic representations (PhD student, <i>Seung-Cheol Baek</i>)
2021–present	Neural encoding of musical emotions (postdoc, <i>Dr. Seung-Goo Kim</i>)
2018–2023	Neural bases of interpersonal coordination in music production (PhD student, <i>Katarzyna Gugnowska</i> , co-funded by Friedrich Naumann Stiftung)
2017–2023	Neural bases of joint music production (PhD student, <i>Natalie Kohler</i> , co-funded by MPI-CBS, Dept. of Neurology)
2016–2022	Neural segregation and integration of intonation and lexical tone (PhD student, <i>Pei-Ju Chien</i> , funded by IMPRS NeuroCom & MPI-CBS, Dept. of Neuropsychology)
2017–2019	Causal temporal dynamics of prosody perception (postdoc, <i>Sven Paßmann</i> , co-funded by MPI-CBS, Dept. of Neuropsychology)
2013–2017	Neural bases of prosodically coded intentions (PhD student, <i>Nele Hellbernd</i>)
2012–2017	Principles of musical action planning (PhD student, <i>Roberta Bianco</i> , co-funded by MPI-CBS, Dept. of Neurology)

Funding

2026	BMFTR Wissenschaftsjahr 2026 , <i>Noten und Neuronen: Musik als Medizin der Zukunft?</i> [Notes and neurons: Music for brain health] [co-PI] (PI: Theodor Rüber, University of Bonn & DZNE)	~110,000 EUR
2026	Anne Cutler International Visiting Fellowship , <i>The future of prosody research</i> , Western Sydney University, Australia [PI]	22,814 AUD (~12,600 EUR)
2014	Visiting Scholarship , <i>Nonverbal communication in speech and music</i> , Western Sydney University, Australia [PI]	9,000 AUD (~6,000 EUR)
2013–2019	Otto Hahn Award group funding, <i>Neural bases of intonation in speech and music</i> , Max Planck Society [PI]	~957,000 EUR
2011–2013	Otto Hahn Award own postdoc position, Max Planck Society [PI]	~183,750 EUR
1999–2000	ERASMUS Scholarship for studying in Strasbourg, France	1,200 EUR

Student Funding

2026–2027	<i>Dr. Seung-Goo Kim</i> : Joint Korean-German Research Projects 2025 in the Natural, Life and Engineering Sciences, NRF-DFG	9,321 EUR
2025–2026	<i>Dr. Seung-Goo Kim</i> : MPG Diversity Excellence Fund 2025, MPG	20,000 EUR
2024–2025	<i>Dr. Hanna Ringer</i> : JSPS International Fellowship for Research in Japan, Japan Society for the Promotion of Science	~25,000 EUR
2023–2026	<i>Dr. Seung-Goo Kim</i> : Johanna Quandt Young Academy Fellowship, Johanna Quandt Young Academy	10,000 EUR
2021–2022	<i>Pei-Ju Chien</i> : PhD wrap-up grant, Taiwanese Ministry of Science and Technology (declined)	20,000 NTD (~6,700 EUR)
2018–2021	<i>Katarzyna Gugnowska</i> : PhD scholarship, Friedrich Naumann Stiftung für die Freiheit	~70,200 EUR

Teaching & Supervision

Qualifications

2022	Strategies of healthy leadership [Strategien gesunder Führung] (10 teaching units [TU])
2020	Science communication [Wissenschaftskommunikation] (6 TU)
2019	Motivating students online [Studierende online motivieren] (8 TU)
2015–2018	Saxonian Certificate in University Didactics (200 TU)
	Module 1 “Basics in university didactics” [Hochschuldidaktische Grundlagen] (60 TU)
	Module 2 “Activating teaching techniques” [Aktivierende Lehrmethoden] (16 TU)
	“Supervising final year projects” [Abschlussarb. wirksam betreuen] (16 TU)
	“Evaluation, marks, exams” [Bewerten, Benoten, Prüfen] (16 TU)
	“Evaluation of essays and theses” [Beleg- u. Diplomarbeiten bewerten] (4)
	“Construction of exam questions” [Prüfungsfragen konstruieren] (4 TU)
	“Effective counselling” [Wirksame Beratungen] (5 TU)
	Module 3 “Advanced university didactics” (80 TU)
2015	Strategic planning of research careers (9 TU)
2015	Management Module 1: Successfully building, managing and leading a research team (12 TU)
2015	Management Module 2: Research team leader – task, role and challenges (13 TU)

Seminars and lectures

Johann-Wolfgang-Goethe University Frankfurt

2026/27	Biology of Pain and Pain Therapy (Seminar series, B.Sc. Psychology)
2026	Biology of Pain and Pain Therapy (Seminar series, B.Sc. Psychology)
2025/26	Biology of Pain and Pain Therapy (Seminar series, B.Sc. Psychology)
2024/25	Music and Brain (Seminar series, B.Sc. Psychology)
2024/25	Biological Psychology (Lecture series, B.Sc. Psychology)
2024/25	Biology of Pain and Pain Therapy (Seminar series, B.Sc. Psychology)
2023	Biology of Pain and Pain Therapy (Seminar series, B.Sc. Psychology)
2023	Biopsychology of Stress (Seminar series, B.Sc. Psychology)
2022/23	Biology of Pain and Pain Therapy (Seminar series, B.Sc. Psychology)
2022/23	Biopsychology of Stress (Seminar series, B.Sc. Psychology)
2022	Biology of Pain and Pain Therapy (Seminar series, B.Sc. Psychology)
2022	Biopsychology of Stress (Seminar series, B.Sc. Psychology)
2021/22	Biology of Pain and Pain Therapy (Seminar series, B.Sc. Psychology)
2021/22	Biopsychology of Stress (Seminar series, B.Sc. Psychology)
2021	Neurocognition of Music (Seminar series, M.Sc. Psychology)

Konstanz University

2023	Music and Language: Neurocognitive comparisons I & II (2 lectures for BA, MA and doctoral students of linguistics)
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University of Heidelberg

2023 Music, Language, Emotion – Perspectives from Cognitive Psychology (Seminar series, MA Musicology)

Leipzig University

2020/21 Introduction to Psychology (Seminar series, B.Sc. Psychology)
 2018/19 Music Psychology – Cognition and Perception (Seminar series, BA Musicology)
 2017/18 Introduction to Psychology (Seminar series, B.Sc. Psychology)
 2016 Cognitive Psychology II – Language and Cognition (Seminar series, B.Sc. Psychology)
 2015/16 Introduction to Psychology (Seminar series, B.Sc. Psychology)
 2015 Cognitive Psychology II – Language and Cognition (Seminar series, B.Sc. Psychology)
 2014/15 Introduction to Psychology (Seminar series, B.Sc. Psychology)
 2014/15 Empirical work – Posner paradigm (Laboratory courses, B.Sc. Psychology)
 2014 Cognitive Psychology II – Language and Cognition (Seminar series, B.Sc. Psychology)
 2013/14 Introduction to Psychology (Seminar series, B.Sc. Psychology)
 2006 Perception (Seminar talk, Minor in Psychology, with Dr Kirsten Volz)
 2005/06 Biological Psychology (Lecture, Minor in Psychology, with Dr Stefan Koelsch)

University of Cologne

2019 Music, Language, Emotion – Perspectives from Cognitive Psychology (Seminar series, MA Musicology)

International Max Planck Research School, MPI for Human Cognitive and Brain Sciences

2023 Language and Music I & II (2 lectures for doctoral students)
 2021 Language and Music I & II (2 lectures for doctoral students)
 2019 Language and Music I & II (2 lectures for doctoral students)
 2016 Language and Music I & II (2 lectures for doctoral students)

Martin Luther University Halle-Wittenberg

2010-2011 Module coordinator Biological Psychology (B.Sc. Psychology)
 2010/11 Biological Psychology (Lecture series, B.Sc. Psychology)
 2010/11 Biological Psychology (Laboratory courses, B.Sc. Psychology)
 2010 Biological Psychology – Music & Brain (Seminar series, B.Sc. Psychology)
 2009/10 Biological Psychology (Lecture series, B.Sc. Psychology, with Dr Roman Liepelt)
 2009/10 Biological Psychology (Laboratory courses, B.Sc. Psychology, with Dr Roman Liepelt)

Supervision, Co-Supervision, Mentoring**Mentoring at all career levels**

2026– Thesis Advisory Committee for PhD candidate Luca Naudszus, ETH Zurich, Switzerland
 2024– Thesis Advisory Committee for PhD candidate Tanguy Rubat du Méric, Vanderbilt University, Nashville, TN, USA
 2023– Thesis Advisory Committee for PhD candidate Zofia Holubowska, IMPRS CoNi, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
 05/2023 “CRBLM 5à7: Growing up in Science”, Centre for Research on Brain, Language and music, Montréal, Canada
 2022–2023 Mentor for female Master students, University of Osnabrück, Germany

- 2020–2023 Thesis Advisory Committee for PhD candidate Hanna Ringer, IMPRS NeuroCom, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- 05/2021 “Growing up in academia”, Max Planck Institute for Empirical Aesthetics, Frankfurt/M.
- 2013–2020 Mentor for young female scientists in the Minerva-FemmeNet of the Max Planck Society (<http://www.minerva-femmenet.mpg.de>)

Supervision of Postdocs (3)

- 2021– Seung-Goo Kim
- 2018–2019 Sven Paßmann, now: project coordinator for research data management at Humboldt University Berlin, Germany
- 2014–2018 Mauricio J. Martins, now: research group leader *Hierarchical Cognition* at University of Vienna, Austria

Supervision of PhD students (7)

- 2022– Seung-Cheol Baek
- 2018–2021 Katarzyna Gugnowska, career change, now: data scientist at *LUX MED Group*, Warsaw, Poland
- 2017–2023 Natalie Kohler, defended 2024, Leipzig University (magna cum laude), now: data scientist at *singularIT*, Leipzig, Germany
- 2016–2022 Pei-Ju Chien, defended 2022, Leipzig University (magna cum laude), now: postdoc at *Lund University*, Sweden
- 2013–2018 Nele Hellbernd, defended 2025, Leipzig University (summa cum laude), now: researcher at *Institute for Innovation and Technology*, Berlin, Germany
- 2017–2018 Maria Dotzer, career change, now: medical technical assistant at *University Hospital Leipzig*, Department of Paediatric Psychiatry, Psychotherapy and Psychosomatics
- 2012–2017 Roberta Bianco, defended 2017, Leipzig University (magna cum laude), now: Associate Professor at *University of Pisa*, Italy.

Co-Supervision of PhD students (5)

- 2022–2026 Kanthida van Welzen, defended 2026, Karolinska Institutet Stockholm, Sweden.
- 2010–2013 Maria Felber, career change, now: medical doctor, Switzerland
- 2010–2016 Eleanor Elizabeth Harding, defended 2016, University of Potsdam (summa cum laude), now: postdoc at *University of Groningen*, The Netherlands
- 2010–2015 Irene Alonso Fernández, defended 2015, Université Lille Nord-de France, France; now: child neuropsychologist at *Servicio de Salud del Principado de Asturias*, Oviedo, Spain
- 2009–2012 Julia Merrill (née Groh), defended 2012, Leipzig University (summa cum laude); now: Adjunct Professor at *University of Kassel*, Germany & senior researcher at MPI for Empirical Aesthetics, Frankfurt am Main, Germany

Co-Supervision of State Examinations (11)

- 2019 Eva-Maria Fridrich, Caroline Sanden, Annegret Reinhardt, Maria Glootz, Patrick Ritter, Pauline Schwinn, Ruben Seilnacht, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany
- 2018 Sebastian Jung, Martin Schönfelder, Julia Schönfelder, Georg Postulka, Lehramt Musik, Hochschule für Musik und Theater Leipzig, Germany

Diploma and Master students (16)

- 2026 Antonia Čerič, M.Sc. Interdisciplinary Neuroscience, Goethe University Frankfurt/M. [Neural networks for prosody and phoneme processing: A TMS-fMRI study]

- 2024 Tessa Cancio Pastor, M.A. Linguistics, Università di Pavia, Italy [Cross-linguistic communication of intentions in prosody] – with distinction, cum laude
- 2024 Alexander Latton, M.A. Musicology, Leipzig University, Germany [Music and emotion]
- 2023 Katharina Roscher, M.Sc. Psychology, Regensburg University, Germany [Syntactic priming of musical actions]
- 2019 Diana Vachtchenko, M.A. Musicology, Leipzig University, Germany
[Die Auswirkung von Musik auf das Fitnesstraining]
- 2018 Yvonne Kiesel, M.Sc. Psychology, TU Dresden, Germany [Influence of musical training and cultural immersion on cross-cultural prosody perception]
- 2018 Eléa Dheilly, M.Sc. in Life Sciences and Technology, EPFL – École Polytechnique Fédérale de Lausanne, Switzerland [The causal role of right posterior superior temporal sulcus in prosody perception: a combined TMS-fMRI study]
- 2018 Elisabeth Schneider, M.Sc. Psychology, Martin Luther University Halle-Wittenberg, Germany [Stufen der Handlungsplanung: Eine EEG-Studie mit Pianisten]
- 2017 Gisela Govaart, M.Sc. Psychology, University of Amsterdam, The Netherlands
[Syntax in musical action: EEG evidence for syntax processing during music production and observation in pianists]
- 2017 Felix Haiduk, M.Sc. Psychology, Leipzig University, Germany
[The Singer's Formant as an evolved mating signal reflected by MMN]
- 2016 Natalie Kohler, M.Sc. in Music, Mind, and Brain, Goldsmiths, University of London, UK
[It's all about the timing: Investigating the temporal nature of interaction between melodic pitch and linguistic prosodic expectancy]
- 2015 Nico Benz, M.A. Linguistics, Leipzig University, Germany [Reanalyse bei der Verarbeitung hierarchischer Strukturen]
- 2011 Katharina Fath, Diploma in Psychology, Eberhard Karls University Tübingen, Germany
[Einfluss von harmon. Verletzungen auf die Vorhersage von motorischen Reizen]
- 2011 Katrin Cunitz, Diploma in Psychology, University Bremen, Germany [Die funktionelle Rolle des Fasciculus arcuatus: Zwei Einzelfallstudien mit Patienten]
- 2010 Eleanor Harding, M.Sc. Clinical Linguistics, University Potsdam, Germany [Neural correlates of music and action: An electrophysiological and behavioral study]
- 2004 Lena Nowicki, Diploma in Biology, Leipzig University, Germany [Psychophysiological correlates of emotions elicited by nonhuman sounds]

Bachelor students (11)

- 2026 Saskia Bernshausen, B.Sc. Psychology, Goethe University Frankfurt/M. [Metre and syntax processing in music and language in non-musicians: An EEG study]
- 2020 Alexander Latton, B.A. Musicology, Leipzig University, Germany [Auswirkungen von Musik auf das menschliche Belohnungssystem]
- 2020 Laura Bou-Vinals, B.A. Musicology, Leipzig University, Germany [Redefining musician's dystonia – How psychological factors contribute to a physiological disorder]
- 2018 Hanna Ringer, B.Sc. Psychology, Leipzig University, Germany
[Structural connectivity for syntax-based planning of musical actions]
- 2018 Annika Just, B.Sc. Psychology, Leipzig University, Germany
[Intentional prosody in German and Mandarin Chinese]
- 2017 Marie Salditt, B.Sc. Psychology, Leipzig University, Germany
[Conveying and recognizing intentions from prosody – A comparison between a group of non-actors and actors]
- 2017 Hanna Susanna Bethcke, B.Sc. Psychology, Leipzig University, Germany
[Implizite Wahrnehmung prosodisch kodierter Intentionen]

- 2017 Susan Kang, B.Sc. Cognitive Science, University of Osnabrück, Germany
[Cross-modal syntax processing during piano playing]
- 2016 Jannis Steininger, B.Sc. Psychology, Leipzig University, Germany
[Prosodische Äußerung von Intentionen: Ein Vergleich zwischen Schauspielern und Nicht-Schauspielern]
- 2016 Elias Matin, B.Sc. Psychology, Leipzig University, Germany
[Prosodiewahrnehmung im premotor. Kortex: Etablierung eines Paradigmas für TMS]
- 2011 Tobias Ay, B.Sc. Psychology, Martin Luther University Halle-Wittenberg, Germany
[Kann Musik semantische Information vermitteln? Verhaltensexperiment zum semantischen Priming]

Interns (30)

- 2026 Augustin Bouquillard (École Polytechnique, Paris, France)
- 2025 Saskia Bernshausen (Johann Wolfgang Goethe University Frankfurt/M., Germany)
- 2024 Paula Köhler (Otto von Guericke University Magdeburg, Germany)
- 2024 Tessa Cancio Pastor (University of Pavia, Italy)
- 2022 Mariëlle C. E. Baelemans (University of Amsterdam, The Netherlands)
- 2022 Zoë Bolz (Johann Wolfgang Goethe University Frankfurt/M., Germany)
- 2019 Matthis Fritz (Leipzig University, Germany)
- 2018 Anna Czepiel (University of Jyväskylä, Finland)
- 2018 Ayaka Tsuchiya (University of Bonn, Germany)
- 2017 Tobias Struck (Leipzig University, Germany)
- 2017 Hanna Ringer (Leipzig University, Germany)
- 2017 Elisabeth Scheider (Martin Luther University Halle-Wittenberg, Halle, Germany)
- 2017 Gisela Govaart (University of Amsterdam, The Netherlands)
- 2017 Wy Ming Lin (Wesleyan University, USA, Congress Bundestag Youth Exchange)
- 2017 Hanna Bethcke (Leipzig University, Germany)
- 2016 Natalie Kohler (Goldsmiths University of London, UK)
- 2016 Jannis Starzinski (Leipzig University, Germany)
- 2016 Jannis Steininger (Leipzig University, Germany)
- 2015 Elias Matin (Leipzig University, Germany)
- 2014 Corinna Eidner (Christliches Gymnasium Jena, Germany)
- 2014 Jessica Jiesi Zhao (Wilhelm Ostwald Gymnasium, Leipzig, Germany)
- 2014 İpek Pınar Bekâr (Ankara University, Turkey)
- 2013 Florian Scharf (Leipzig University, Germany)
- 2012 Roberta Bianco (University of Milan, Italy)
- 2011 Sophie-Marie Raeder (McGill University, Montréal, Canada)
- 2011 Katharina Fath (Eberhard Karls University Tübingen, Germany)
- 2010 Irene Alonso Fernández (University of Oviedo, Spain)
- 2010 Tobias Ay (Martin Luther University Halle-Wittenberg, Halle, Germany)
- 2010 Johanna Reichert (Julius Maximilian University Würzburg, Germany)
- 2009 Eleanor Harding (University of Potsdam, Germany)
- 2009 Katrin Cunitz (University of Bremen, Germany)

Student assistants (12)

- 2026– Till Bechtloff (Hochschule für Musik Karlsruhe, Germany)
- 2026– Saskia Bernshausen (Goethe University Frankfurt, Germany)
- 2025– Negin Kabirmokhtarfar (Goethe University Frankfurt, Germany)
- 2025–2026 Elana Radtke (Goethe University Frankfurt, Germany)

2024–2026 Antonia Čerič (Goethe University Frankfurt, Germany)
2022–2024 Stefanie Gloggengießer (Goethe University Frankfurt, Germany)
2018–2019 Hanna Ringer (Leipzig University, Germany)
2016–2018 Annika Just (Leipzig University, Germany)
2015–2016 Jasper Pöhls (Martin Luther University Halle-Wittenberg, Germany)
2014–2015 Florian Scharf (Leipzig University, Germany)
2011–2012 Anne Wagner (Leipzig University, Germany)
2009–2011 Katrin Cunitz (University of Bremen, Germany)

Public outreach and Science Communication

Public science talks (28)

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- 07–12/26 “Noten und Neuronen: Musik für die Gehirngesundheit” [Notes and neurons: Music for brain health], Series of 6 science concerts with live experiment in concert halls of Cologne, Bonn (2x), Berlin, Munich, and Dortmund, funded by the Federal Ministry of Research, Technology, and Space. www.notenundneuronen.de
- 11/2025 “Musik im Gehirn—Vom Ich zum Wir“, public science talk in the „Hirngespinnste“ series of the Cooperative Brain Imaging Center (CoBIC), Frankfurt/M., Germany.
- 11/2024 “Sinfonie im Kopf—Wie spielt das Gehirn Musik?”, public science talk at the Interdisciplinary Center for Neuroscience Frankfurt (ICNF), Frankfurt/M., Germany.
- 06/2024 “Konzert der Neuronen: Wie macht das Gehirn Musik?”, public science talk in the “Dialogue in the museum” series of the Daimler & Benz Foundation, Stuttgart, Germany.
- 04/2024 “Konzert der Neuronen: Wie macht das Gehirn Musik?”, Science Slam for adolescents, “Frankfurt hat Hirn, live!”, City of Frankfurt am Main, Germany.
- 04/2023 “Science Meets Music: Neurons in concert—How the brain plays music”, public science talk and concert, Max Planck Florida Institute for Neuroscience, Jupiter, FL, USA; <https://www.youtube.com/watch?v=ESb5gLjzUYE>
- 10/2022 “Good vibrations, music, sound and nature”, podium and performance at BIOTOPIA festival “Senses”, Munich, Germany; <https://www.youtube.com/watch?v=TmeFGgb4ADs>
- 10/2022 “Konzert der Neuronen: Biologische Ursprünge musikalischer Sinne” [“Neurons in concert: Biological origins of musicality”], public science talk at BIOTOPIA festival “Senses”, Munich, Germany; <https://www.youtube.com/watch?v=uPWak5w5VYY>
- 03/2022 “Neuronale Schnittstellen von Musik und Sprache” [“Neural links between music and language”], public science talk at Volkshochschule Frankfurt am Main, Germany, in the series „Studium Musicale“.
- 05/2021 “Ein Tag für die Literatur und Musik” [“One day for literature and music”], public science talk at a virtual festival organized by radio station hr2-kultur.
- 01/2020 “Da Capo (Tacet in Concert)”, panel discussion with composer and conductor Ari Benjamin Meyers on music and the brain, Schering Foundation, Berlin, Germany.
- 08/2019 “Warum Jazz und Klassik sich so selten treffen” [“Why jazz and classical music rarely meet”], public science talk at 20th Young Euro Classic Festival followed by jazz concert, Berlin Concert Hall, Berlin, Germany.
- 10/2018 “Klangwelten: Wie mächtig ist das Hören?” [“Soundscapes: The power of hearing”], panel discussion between composers, musicologists and neuroscientists with musical concert, Berlin Brandenburg Academy of Sciences, Berlin, Germany.
- 09/2018 “Miles Davis ist nicht Mozart: Wie sehr Musik unser Gehirn verändert” [“Miles Davis is not Mozart: How much music changes our brain”], public science talk with jazz band, Max Planck Day 2018, Munich, Germany.
- 04/2018 “Musik & Sprache: Auf der Suche nach gemeinsamen Wurzeln” [“Music & language: On the quest for common roots”], 41. Bibliothekstagung, Leipzig, Germany.
- 02/2018 “Unser Gehirn – unsere Forschung” [“Our brain – our research”], Public science talk and discussion with children of Leipzig’s “Theater der Jungen Welt” to inspire their theatre play “Dance of the neurons”.

- 02/2016 “Hier spricht die Musik!” [“Here, music speaks for itself!”], Public science talk on music, language and the brain as part of the musical “Musicophilia” after Oliver Sacks’ bestseller “Musicophilia”, performed by Meta-Theatre, Schwere Reiter, Munich, Germany.
- 07/2015 “Here, music speaks for itself!”, Opening speech at IMPRS Summer School, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 01/2015 “Labyrinth des Hörens” [“The labyrinth of hearing”], Public science talk on music, language and the brain at Villa Clementine, Wiesbaden, Germany; later broadcasted as radio show on 1 March 2015 and 7 March 2015 on hr2-kultur.
- 06/2014 “Hier spricht die Musik!” [“Here, music speaks for itself!”], public science talk, Long Night of Science, Leipzig, Germany.
- 04/2014 “Hier spricht die Musik!” [“Here, music speaks for itself!”], Public science talk on music, language and the brain as part of the musical “Musicophilia” after Oliver Sacks’ bestseller “Musicophilia”, performed by Meta-Theatre, Radialsystem V, Berlin, Germany.
- 07/2013 “Träume und Gefühle aus der Sicht der Neuropsychologie”, [“Dreams and feelings: Perspectives from Neuropsychology”], Public science talks on music and brain with musical concert, 68. Sommerliche Musiktage, Hitzacker, Germany.
- 10/2011 “Music, language, and action in the human brain”, public science talk with musical concert at “Festival della Scienza”, Casa Paganini, Genoa, Italy.

TV (8)

- 04/2026 **ZDF**: “Die heilende Kraft der Musik” [“The healing power of music”], science documentary in “ZDF aspekte” <https://www.zdf.de/video/reportagen/aspekte-106/musik-kraft-psyche-100>
- 02/2026 **arte**: “Warum singen wir” [“Why we sing”], science documentary in the arte series “42: Die Antwort auf fast alles” <https://www.youtube.com/watch?v=HIEkVsRGjD8>
- 05/2023 **3sat**: “Unsere Hand – Geniestreich der Evolution” [“Our hand – evolution’s stroke of genius”], science documentary <https://www.3sat.de/wissen/wissenschaftsdoku/230525-sendung-unsere-hand-wido-100.html>
- 11/2021 **arte**: “Gibt es den perfekten Song?” [“Is there a perfect song?”], science documentary <https://www.arte.tv/de/videos/101940-009-A/42-die-antwort-auf-fast-alles/>
- 09/2021 **3sat**: “Die Kraft der Klänge – Musik als Medizin” [“The power of sounds – Music as medicine”], science documentary <https://www.3sat.de/wissen/wissenschaftsdoku/210913-sendung-wido-100.html>
- 06/2019 **MDR Wissen**: “Wie entsteht Musikgeschmack?” [“Where does music taste come from?”], science documentary <https://www.mdr.de/wissen/videos/wie-entsteht-musikgeschmack102.html>
- 09/2018 **3sat**: documentary and interview in science show „nano“ on the brains of classical and jazz pianists <https://www.3sat.de/mediathek/?mode=play&obj=75897>
- 06/2017 **arte**: „Brain Beats: Eine Reise in die Zukunft des Hörens” [“Brain beats: A journey into the future of hearing”], documentary by Andrea Lamount on the roots of music and language, <https://www.youtube.com/watch?v=j9BsdbUcFIQ>
- 03/2016 **MDR LexiTV**: “Das Geheimnis der Musik-Genies” [“The secret of musical geniuses”], documentary on the impact of musical training on the brain, <https://www.mdr.de/wissen/sendungen/video-5484.html>

Podcasts & Youtube (6)

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- 11/2026 **BR Klassik, Klassik für Klugscheißer:** „Futter fürs Hirn – Warum Musik ein Superfood ist“ [„Food for the brain – Why music is a superfood“]
- 10/2026 **P&P Gesundheitstalk:** „Noten und Neuronen: Wissenschaft hören, fühlen und erleben - Note für Note!“ [“Notes and Neurons: Hearing, feeling and experiencing science – note by note!”] <https://open.spotify.com/episode/3CQ0rOf6igH3rVbh64wA29>
- 06/2026 **90 Milliarden, Der Hirnpodcast:** “Noten und Neuronen: Musik für die Gehirngesundheit“ [„Notes and Neurons: Music for Brain Health“], <https://tinyurl.com/90milliarden>
- 04/2023 **Max Planck Florida's Neurotransmissions Podcast:** “The neuroaesthetics of music”, <https://www.youtube.com/watch?v=-r4ZORXHE3k>
- 12/2021 **Gewandhaus zu Leipzig:** “Macht Musik hören intelligent?” [“Does listening to music make us smarter?”], Episode 5 of the “Sound & Science” science series for kids of the Gewandhaus Leipzig, <https://www.youtube.com/watch?v=8iUlvhNsLFk>
- 06/2021 **WDR5:** “Macht uns Musik sozial?” [“Does music make us social?”], science podcast “Quarks Daily”, <https://www.quarks.de/podcast/dailyquarks/>

Radio (22)

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- 10/2026 **rbb24:** „Der Ton macht die Musik: Wie wir Gesagtem Bedeutung verleihen“ – live interview on Larrouy-Maestri et al. (2026)
- 10/2026 **Radio eins rbb „Die Profis“:** „Alltagsweisheit wissenschaftlich geprüft: Der Ton macht die Musik“ – live interview on Larrouy-Maestri et al. (2026)
- 10/2026 **SWR:** “Wie wir den Tonfall unterschiedlich deuten” [„How we interpret prosody“] – interview on Larrouy-Maestri et al. (2026)
- 05/2022 **WDR3:** “Wie wirkt Musik im Gehirn?”, series of interviews with Desirée and Kai Löffler on music and the brain, <https://www1.wdr.de/radio/wdr3/musik-und-gehirn-102.html>
- 03/2022 **SRF:** “Wie unsere Hirnwellen sich aufeinander eintunen” [“How our brains become atuned to each other”] – interview on Bianco et al. (2021)
- 03/2022 **Deutschlandfunk:** „Mit dem Klavier in die Röhre” [“A piano in the MR-scanner”] – interview on Bianco et al. (2021)
- 03/2022 **MDR:** „Musik ist harte Arbeit für's Gehirn“ [“Music is hard work for the brain”] – interview on Bianco et al. (2021) and Gugnowska et al. (2022)
- 02/2022 **hr2:** “Was passiert beim Klavierspielen im Gehirn?” [“What happens in the brain when playing the piano”] – interview on Bianco et al. (2021) and Gugnowska et al. (2022)
- 02/2022 **SWR2:** „Musikgespräch – Das macht das Gehirn beim Musizieren” [“Music talks – what the brain is doing when making music”] – interview on Bianco et al. (2021)
- 02/2022 **Deutschlandfunk:** „Do-Re-Mi DNA – Eine Tagung zu biologischen Grundlagen von Musik” [“Do-Re-Mi DNA – A conference on the biological bases of music”], interview about the Social Bridges e-conference
- 02/2020 **NPR Radio:** “Splitting speech and music”, Interview on Sammler (2020, Science).
- 02/2019 **MDR Kultur:** „Einblicke ins musikalische Gehirn” [“The musical brain”], 1-hour radio documentary on music cognition research, music therapy, music and language
- 02/2018 **ORF:** Interview with Daniela Knaller on brain processes during piano performance
- 02/2018 **Český rozhlas:** Interview with Filip Rambousek on Bianco et al. (2018)

- 01/2018 **France Inter:** „Dans la tête des pianistes” [“In the head of pianists”], radio discussion on classical and jazz musicians, Bianco et al. (2018).
- 01/2018 **rbb Kulturradio:** „Jazz- und Klassikhirne ticken unterschiedlich” [“Jazz and classical brains are different”], Live interview with Anja Herzog on Bianco et al. (2018).
- 01/2018 **BR Klassik:** „Miles David ist nicht Mozart” [“Miles David is not Mozart”], Interview with Elgin Heuerding on classical and jazz pianists, Bianco et al. (2018), <https://www.br-klassik.de/aktuell/hirnforschung-gehirnstruktur-jazz-pianist-klassikpianist-100.html>
- 01/2018 **Deutschlandfunk:** „Was die Gehirne von Jazz- und Klassikpianisten voneinander unterscheidet” [“The difference between brains of jazz and classical pianists”], Interview with Ralf Krauter on Bianco et al. (2018).
- 01/2018 **MDR Kultur:** „Der Musikstil macht den Unterschied” [“The difference is in the musical genre”], Interview with Kristin Kielon on classical and jazz pianists, Bianco et al. (2018).
- 01/2018 **CBS New York:** “Brains work differently to play classic, jazz”, Report by Matt Yurus on the brains of classical and jazz pianists, Bianco et al. (2018).
- 01/2016 **Kulturradio rbb:** „Der Weg ist das Ziel” [“The journey is the reward”], Live interview with Christian Schruoff on the neural mechanisms of piano playing.
- 03/2015 **hr2 Kultur:** “Labyrinth des Hörens” [“The labyrinth of hearing”], Radio show by Volker Bernius on music, language, & the brain, recorded in January 2015 in Wiesbaden, Germany.

Print (18)

- 10/2026 **FAZ:** Article „Wie Aussprache die Wahrnehmung beeinflusst“ [„How intonation influences comprehension”] on Larrouy-Maestri et al. (2026, Cognition)
- 07/2022 **Bild der Wissenschaft:** Article „Wie Musikergehirne zusammenspielen” [“How musicians’ brains perform together”] by Elena Bernard on Kohler et al. (2022, Cereb Cortex)
- 03/2022 **Max Planck Forschung / Max Planck Research:** Article “Musik im Kopf” [“Music in your head”] by Stefanie Reinberger about brain processes during piano performance.
- 04/2018 **GEO:** Article by Christiane Löll on brain processes during piano performance.
- 03/2018 **Laborjournal:** Article “Aus dem Takt gebracht” [“Getting out of step”] by Sigrid März on brain processes during piano performance in classical and jazz music, Bianco et al. (2018).
- 02/2018 **Book project** “Auf der Suche nach dem Ungehörten – Improvisation und Interpretation in der musikalischen Praxis der Gegenwart” [“In search for the unheard – improvisation and interpretation in contemporary music performance”], interview with book author Dr. Anke Steinbeck on brain processes during piano performance in classical and jazz music.
- 02/2018 **Süddeutsche Zeitung:** “Wechselspannung der Hirnströme” [“Alternation of brain waves”], Newspaper article by Helmut Mauró on Bianco et al. (2018).
- 02/2018 **The Economist:** “Not of equal temperament – comparing the brain activity of jazz and classical pianists”, Newspaper article on Bianco et al. (2018).
- 01/2018 **Scientific American Brasil:** “Cérebros dos pianistas de jazz e de música clássica funcionam de forma diferente” [“The brains of classical and jazz pianists work differently”], Newspaper article on Bianco et al. (2018).

- 01/2018 **Spektrum:** “Musikerhirne arbeiten je nach Stilrichtung verschieden” [“Musicians’ brains work differently depending on musical genre”], Newspaper article by Daniela Zeibig on Bianco et al. (2018).
- 01/2018 **La Repubblica:** “Fotografo le note nel cervello del pianista” [“Taking pictures of notes in the pianist’s brain”], Newspaper article by Rosita Rijtano on Bianco et al. (2018).
- 01/2018 **Leipziger Volkszeitung:** “Planck-Institut: 30 Profi-Pianisten spielen für die Hirnforschung” [“Planck Institute: 30 professional pianists play for brain science”], Newspaper article on Bianco et al. (2018).
- 01/2018 **Science Daily:** “Miles Davis is not Mozart: The brains of jazz and classical pianists work differently”, Newspaper article on Bianco et al. (2018).
- 03/2016 **Welt am Sonntag:** “Dr. Mozart”, Newspaper article by Paula L. Pleiss on music & brain.
- 11/2015 **Frankfurter Allgemeine Sonntagszeitung:** “Oh Tannenbaum im Schallschutzraum”, Newspaper article by Laura Burbaum on music & brain.
- 03/2014 **Welt am Sonntag:** “AC/DC ist gut für das Hirn”, Newspaper article by Jan Schapira on music, language and the brain.
- 07/2013 **TAZ am Wochenende:** “Der größte Hirn-Stimulus von allen” [“The greatest brain stimulus”], Newspaper article by Petra Schellen on music & brain, announcing the public science talk at the 68. Sommerlichen Musiktagen in Hitzacker, Germany
- 03/2010 **New Scientist:** “Music and lyrics: How the brain splits songs”, Commentay by Jessica Hamzelou on Sammler et al. (2010).

Art & Exhibitions (5)

- 11/2026 **Experimenta Heilbronn:** “SinnenRauschen”, Immersive music theatre intertwined with scientific explanations on music and emotion, <https://www.wko-heilbronn.de/konzerte/sinnenrauschen>
- 02/2024 **MPIEA:** “How did you do that? Theatre of Memory—A Neuro-Acoustic Sound Network”, lecture recital with contemporary artist Tim Otto Roth, Max Planck Institute for Empirical Aesthetics, Frankfurt/M., Germany
- 06/2018 **MPI-CBS:** “Fotografierende Forscher – forschende Fotografen” [“Researchers taking photos – Photographers doing research”], Panel discussion between photography professors and students of University of Art and Design Halle (Burg Giebichenstein) and neuroscientists of MPI-CBS on the role of photography in art, design and science, Long Night of Science 2018, Leipzig, Germany.
- 09/2016 **Deutsches Hygienemuseum Dresden:** „SPRACHE – Welt der Worte, Zeichen, Gesten” [“LANGUAGE – World of words, signs, gestures”], Exhibition with Dr. Kirsten Weining on Language, Prosody, Music & Brain, Dresden, Germany
- 07/2015 **MPI-CBS:** “Mehnert’s Concert- and Ballrooms: A tale about Leipzig’s Historism”, Exhibition of large-size photographs showing the charm of a neo-baroque concert and ballroom in Leipzig, MPI-CBS, Leipzig, Germany.