

Curriculum vitae

PD Dr. rer. nat. DANIELA SAMMLER

Current affiliation

Max Planck Institute for Human Cognitive and Brain Sciences
 Otto Hahn Group Neural Bases of Intonation in Speech and Music
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Education

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

Academic Appointments

since 07/2013	Independent 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 at Western Sydney University, MARCS Institute for Brain, Behaviour and Development, Sydney, Australia
10/2011 - 06/2013	Visiting researcher at University of Glasgow, School of Psychology and Centre for Cognitive Neuroimaging (CCNi), Glasgow, Scotland, UK
04/2009 - 09/2011	Postdoctoral researcher at Department of Neuropsychology, MPI for Human Cognitive and Brain Sciences, Leipzig, Germany
04/2008 - 03/2009	Postdoctoral researcher at Université Nord-de-France, Lille and Hôpital de la Pitié-Salpêtrière, Paris, France
04/2004 - 03/2008	PhD student in Max Planck Research Group Neurocognition of Music, MPI for Human Cognitive and Brain Sciences, Leipzig, Germany
10/2000 - 03/2004	Student assistant in Max Planck Research Group Neurocognition of Music, MPI for Human Cognitive and Brain Sciences, Leipzig, Germany

Shortlisting

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

Research Focus on the Neurocognition of Music and Language

- **Language:** communication, syntax, prosody and their interaction, pragmatics
- **Music:** syntax in music perception and production, emotion, joint action
- **Language & Music:** neurocognitive similarities between the two domains

Awards and honours

2010	Otto Hahn Medal of the Max Planck Society, 5.000 €
2010	Otto Hahn Award of the Max Planck Society, 800.000 €
2010	Poster Award, 16 th Annual Meeting of the Organization of Human Brain Mapping
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

Selected publications

2018	Bianco, R. ^o , 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. <i>NeuroImage</i> , 169, 383-394. [IF 2018: 5.812] ^o student author
2018	Hellbernd, N. ^o , Sammler, D. (2018). Neural bases of social communicative intentions in speech. <i>Social Cognitive and Affective Neuroscience</i> , 13, 604-615. [OA] [IF 2018: 3.662] ^o student author
2015	Sammler, D. , Grosbras, M.-H., ..., Belin, P. (2015). Dorsal and ventral pathways for prosody. <i>Current Biology</i> , 25, 3079-3085. [OA] [IF 2015: 8.983]
2013	Sammler, D. , Koelsch, S., Ball, T., Brandt, A., Grigutsch, M., ..., A. D., Schulze-Bonhage, A. (2013). Co-localizing linguistic and musical syntax with intracranial EEG. <i>NeuroImage</i> , 64, 134-146. [IF 2013: 6.132]
2010	Sammler, D. , Kotz, S. A., Eckstein, K., Ott, D. V. M., Friederici, A. D. (2010). Prosody meets syntax: the role of the corpus callosum. <i>Brain</i> , 133, 2643-2655. [IF 2010: 9.232]

Conference talks and guest lectures

since 2007	27 conference talks (12 international)
since 2009	35 invited talks at universities and research institutes (13 international)
since 2011	13 public science talks (1 international)
since 2013	2 organized workshops and symposia (1 international)

Memberships

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

Ad-hoc reviewing

Funding agencies	Agence Nationale de la Recherche (ANR), European Research Council (ERC), Portuguese Foundation for Science and Technology (FCT), National Science and Engineering Council of Canada (NSERC), National Science Foundation USA (NSF), National Science Centre Poland (NCN), Swiss National Science Foundation (SNSF), Wellcome Trust
Editorial Board	Brain Sciences (guest); Evolutionary Linguistic Theory; Frontiers in Psychology – Auditory Cognitive Neuroscience; Music & Science
Journals Neuroscience	BMC Neuroscience; Behavioural Brain Research; Brain; Brain Research; Brain Structure and Function; Brain Topography; Cerebral Cortex; Cognitive Neurodynamics; Cognitive Neuroscience; Consciousness and Cognition; Cortex; Current Biology; eLife; Frontiers in Auditory Cognitive Neuroscience; Human Brain Mapping; International Journal of Psychophysiology; Journal of Cognitive Neuroscience; Journal of Neurophysiology; Journal of Neuroscience; Nature Communications; NeuroImage; Neuropsychologia; Neuroscience; PloS ONE; Psychophysiology; Nature Scientific Reports; Science; Social Cognitive and Affective Neuroscience
General Psychology	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
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	University of Trento (Italy), University of Turku (Finland), University of Melbourne (Australia), University of Amsterdam (The Netherlands), Université Claude Bernard Lyon 1 (France)

Media coverage and public outreach

since 2010	15 articles in daily newspapers and popular science journals (e.g., Süddeutsche Zeitung, GEO, Spektrum, Bild der Wissenschaft, Welt am Sonntag, Frankfurter Allgemeine Sonntagszeitung, New Scientist, The Economist, La Repubblica)
since 2011	13 public science talks (1 international)

since 2015	12 radio interviews (e.g., Deutschlandfunk, BR Klassik, Kulturradio rbb, Hessischer Rundfunk 2, MDR Kultur, ORF, Czech Radio, Radio France)
since 2016	4 TV documentaries (MDR, arte, 3sat)
since 2016	1 public exhibition at Deutsches Hygiene-Museum Dresden (“LANGUAGE – World of words, signs, gestures”)

Research Administration

since 2016	Member of the Ethics Council of the Max Planck Society
since 2015	Member of several Appointment Committees of the Max Planck Society (appointments of Max Planck directors and research group leaders)
since 2013	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
2010 – 2011	Module coordinator “Biological Psychology”, Martin Luther University Halle-Wittenberg, Halle/Saale, Germany

Methods (general overview)

Psychophysical and psychoacoustic behavioural measures
 Electroencephalography (EEG) in single and dual setups
 Functional, structural, and diffusion magnetic resonance imaging (MRI)
 Subdural electrocorticography (ECoG)
 Transcranial magnetic stimulation (TMS)
 Work with healthy adults, neurological patients (e.g., stroke, epilepsy) and professional musicians

Selected national and international collaboration partners

Language & Communication

Prof. P. Belin	Institut des Neurosciences de La Timone, Université Aix-Marseille, France
Prof. T. G. Bever	University of Arizona, Tucson, Arizona, USA
Prof. S. A. Kotz	Maastricht University, Maastricht, The Netherlands
Dr. Ritva Torppa	University of Helsinki, Helsinki, Finland

Music

Dr. R. Bianco	University College London, UK
Prof. P. E. Keller	Western Sydney University, Sydney, Australia
Dr. G. Novembre	Istituto Italiano di Tecnologia, Rome, Italy
Dr. P. Vanzella	Universidade Federal do ABC, Santo André, Brazil

Neurocognition

Dr. Stefan Elmer	University of Zurich, Zurich, Switzerland
Prof. T. Särkämö	University of Helsinki, Helsinki, Finland
Prof. Schulze-Bonhage	Freiburg Epilepsy Centre, University Hospital of Freiburg, Freiburg, Germany
Prof. A. Villringer	Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

Publications

Metrics (as of 23 July 2020)

h-index:	21 (Web of Science), 24 (Google Scholar)
number of citations:	2049 (Web of Science), 4080 (Google Scholar)
cumulative IF:	241 (Web of Science, Journal Citation Reports)

Books and chapters

1. **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.
2. **Sammler, D.** (2017). Neurophysiologische Aspekte des Singens. In: M. Fuchs (Ed.). *Die Stimme im pädagogischen Alltag*. (pp. 187- 196). Berlin: Logos-Verlag.
3. **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.

Edited Special Issues

4. **Sammler, D.**, Elmer, S. (2020). Advances in the neurocognition of music and language. *Brain Sciences*. [OA] [IF 2019: 3.332]
5. Hartwigsen, G., Scharinger, M., **Sammler, D.** (2018). Modulating cortical dynamics in language, speech, and music. *Frontiers in Integrative Neuroscience*, 12, 58. [OA] [IF 2019: 2.152]

Five selected publications (peer reviewed)

6. Bianco, R.^o, 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: 5.812] ° student author
7. Hellbernd, N.^o, **Sammler, D.** (2018). Neural bases of social communicative intentions in speech. *Social Cognitive and Affective Neuroscience*, 13, 604-615. [OA] [IF 2018: 3.662] ° student author
8. **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: 8.983]
9. **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: 6.132]
10. **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: 9.232]

Publications in peer reviewed journals (continued)

11. **Sammler, D.** (2020). Splitting speech and music. *Science*, 367(6481), 974-976. [IF 2019: 41.845]
12. Chien, P.-J.^o, 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*. [IF 2019: 4.421] ° student author, *equal contribution
13. 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*. [OA] [IF 2019: 3.129]

14. 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: 2.067] ° student author
15. 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: 4.421] *equal contribution
16. 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: 2.067]
17. 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: 5.902] *equal contribution
18. 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. [IF 2018: 3.943]
19. **Sammler, D.**, Cunitz, K.°, Gierhan, S. M. E., Anwander, 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: 2.700]
20. 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: 5.562]
21. 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: 3.065]
22. 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: 5.835]
23. 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: 0.988]
24. 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*, 414-25. [IF 2016: 3.197]
25. Bianco, R.°, Novembre, G., Keller, P. E., Scharf, F.°, 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: 3.108]
26. 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: 2.989]
27. Alonso, I.°, **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: 3.626]
28. 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: 6.357]
29. **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: 6.042] *equal contribution

30. Merrill, J.°, **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, Article 76. [OA] [IF 2013: 2.843]
31. **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: 6.080]
32. **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: 7.271]
33. **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: 2.670]
34. 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: 10.992]
35. 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: 6.256]
36. Koelsch, S., **Sammler, D.**, Jentschke, S., Siebel, W. A. (2008). EEG correlates of moderate intermittent explosive disorder. *Clinical Neurophysiology*, 119, 151-162. [IF 2008: 2.972]
37. Koelsch, S., **Sammler, D.** (2008). Cognitive components of regularity processing in the auditory domain. *PLoS one*, 3, e2650. [OA] [IF 2009: 4.351]
38. **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: 3.349]
39. Koelsch, S., Rempis, A., **Sammler, D.**, Jentschke, S., et al. (2007). A Cardiac signature of emotionality. *European Journal of Neuroscience*, 26, 3328-3338. [IF 2007: 3.673]
40. 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: 3.349]
41. 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: 2.718]
42. 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: 4.533]
43. 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: 4.005]
44. 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: 16.980]
45. 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: 5.678]
46. 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: 2.374]

Publications in German scientific journals

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

Manuscripts currently under peer review

50. Chien, P.-J., Friederici, A. D., Hartwigsen, G.*, **Sammler, D.*** (in revision). Intonation processing increases task-specific fronto-temporal connectivity in tonal language speakers. *shared senior authorship
51. Herrojo Ruiz, M., Maudrich, T., Kalloch, B., **Sammler, D.**, Kenvill, R., Villringer, A., Sehm, B., Nikulin, V. (under review). Transcranial direct current stimulation over frontopolar cortex drives reward-based motor learning.

Manuscripts in preparation for peer review

52. Bianco, R.^o, Novembre, G., Ringer, H.^o, Hollinger, A., Steele, C., Kohler, N.^o, Keller, P. E., Villringer, A., **Sammler, D.** (forthcoming). The hierarchical cortical organization of music production. ^o student author
53. Gugnowska, K.^o, Novembre, G., Keller, P. E., Villringer, A., **Sammler, D.** (forthcoming). Endogenously driven interbrain synchrony during joint piano playing. ^o student author
54. Harding, E. E.^o, **Sammler, D.**, Kotz, S. A. (forthcoming). Simulated attending rhythms are salient to syntax discrimination in music and language: An individual differences approach. ^o student author
55. Kohler, N.^o, Novembre, G., Keller, P. E., Villringer, A., **Sammler, D.** (forthcoming). Influence of motor familiarity on musical joint action: A dual fMRI study in piano duos. ^o student author
56. Larrouy-Maestri, P., van Rijn, P., Ringer, H.^o, Just, A.^o, Poeppel, D., **Sammler, D.** (forthcoming). Acoustic dimensions and categories of prosodic intentions: A reverse correlation approach. ^o student author
57. **Sammler, D.***, Govaart, G.*^o, Bianco, R.^o, Novembre, G., Keller, P. E. (forthcoming). A hierarchical predictive approach to action observation and imitation. ^o student author, *equal contribution
58. **Sammler, D.**, Just, A.^o, Kiesel, Y.^o, Chien, P.-J.^o, Hellbernd, N.^o, Nan, Y. (forthcoming). Intentions in prosody: A cross-cultural comparison of German and Mandarin Chinese. ^o student author
59. **Sammler, D.**, Salditt, M.^o, Steininger, J.^o, Hellbernd, N.^o (forthcoming). Are actors better communicators? Intention recognition in acted and natural prosody. ^o student author
60. **Sammler, D.**, Felber, M.^o, Maess, B., Grigutsch, M., Friederici, A. F. (forthcoming). Musical expertise shifts hemispheric lateralization of prosody perception. ^o student author
61. **Sammler, D.**, Passmann, S.^o, Zotschew, T.^o, Dotzer, M.^o, Matin, E.^o, Hartwigsen, G. (forthcoming). Vocal pitch perception in right premotor cortex: A TMS study. ^o student author

List of Talks

Organisation of Conferences, Workshops, und Symposia (2)

- 08/2015 **Sammler, D.** (2015). The Melodic Mind. Workshop. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.

- 10/2013 **Sammler, D.**, Anwander, 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.

Conference Talks (27)

- 11/2019 “Setting the tone: Neural bases of prosody”, Satellite Symposium GABi, 19. Jahrestagung der Gesellschaft für Aphasieforschung und –behandlung GAB, Leipzig, Germany.
- 06/2019 “Representation of vocal prosodic contours in laryngeal premotor cortex”, Psychology and Brain, Dresden, Germany.
- 03/2019 “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 “The neuropragmatics of prosody – from contour to meaning”, 41st Annual Conference of the German Linguistic Society, Bremen, Germany.
- 07/2018 “Pathways for Prosody”, Workshop, Crossing boundaries: On sensorimotor and cognitive systems, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 04/2018 “Neuropragmatics of prosody: from contour to meaning”, Workshop, Neurophonetics: Representing and processing phonetic units in the brain, Philipps-University Marburg, Germany.
- 02/2016 “Neurophysiologie des Singens“, 14. Leipziger Symposium zur Kinder- und Jugendstimme, Leipzig, Germany.
- 11/2015 “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 “Dual streams for prosody in the right hemisphere”, 7th Annual Meeting of the Society for the Neurobiology of Language, SNL 2015, Chicago, IL, USA.
- 09/2015 “Syntax in a pianist’s hand – principles of motor planning in expert pianists”, International Conference of Students of Systematic Musicology, SysMus 2015, Leipzig, Germany.
- 04/2015 “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 “Fractionating prosody – pathways and mechanisms”, SMART conference, Amsterdam, The Netherlands.
- 11/2014 “Musik und früher Spracherwerb”, Fachtagung der Stiftung Zuhören und des Hessischen Rundfunks 2, “Chancen der sprachlichen Vielfalt nutzen!”, Wiesbaden, Germany.
- 07/2014 “Dorsal and ventral pathways for prosody”, 12th International Conference on Cognitive Neuroscience (ICON), Brisbane, Australia.
- 03/2014 “Prosody perception in the laryngeal premotor cortex”, Tagung experimentell arbeitender Psychologen 2014 (TeaP), Gießen.
- 03/2014 “Prosody perception in laryngeal premotor cortex”, 36th Annual Conference of the German Linguistic Society, Marburg University, Marburg/Lahn, Germany.
- 11/2013 “Prosody perception in the laryngeal premotor cortex”, SNL 2013 Annual Meeting, San Diego, California, USA.
- 11/2012 “Grammatik der Handlung – Parallelen zur Musik- und Sprachverarbeitung”, 22. Jahrestagung der DGNR, Nürnberg/Fürth, Germany.
- 09/2012 “Prosody meets syntax: localization and connectivity”, 16th World Congress of the International Organization of Psychophysiology, Pisa, Italy.
- 09/2012 “Shared but not the same: Co-localizing syntax in music and language”, Language, music and cognition workshop, University of Cologne, Germany.

- 04/2012 “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 “(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.
- 10/2011 “Music and action – prediction through syntax”, SIEMPRE Intermediate Workshop, Italian Institute of Technology, Genoa, Italy.
- 08/2010 “Music and action: Do they share resources?”, ICMPC XI, Seattle, USA.
- 04/2010 “Co-localizing the processing of music and language in the human brain”, British Psychological Society Annual Conference, Stratford-upon-Avon, UK.
- 05/2009 “Musik und Sprache im menschlichen Gehirn”, 23. Jahrestreffen AK Kinder und Jugendliche der Gesellschaft für Neuropsychologie (GNP), Flehingen, Germany.
- 05/2007 “Comparing linguistic and music syntactic processing by means of subdural recordings”, Language and Music as Cognitive Systems, Cambridge, UK.

Invited Talks at Universities and Research Institutes (34)

- 03/2020 “Neuronale Grundlagen der Prosodieverarbeitung”, Jahrestreffen der ständigen Konferenz der Dozentinnen und Dozenten der Sprachheilpädagogik, Martin Luther University Halle-Wittenberg, Germany.
- 12/2019 “Setting the tone: Neural bases of prosody”, Colloquium, University of Potsdam, Germany
- 08/2019 “Neural bases of music production: From musical ideas to action”, Seminar, Helsinki Summer School in Cognitive Neuroscience, Helsinki, Finland.
- 11/2018 “Neuropragmatics of prosody: from contour to meaning”, MAMPF Colloquium, Ludwig Maximilians University Munich, Germany.
- 11/2018 “Prosodie – Schnittpunkt zwischen Musik und Sprache”, Tag der Sprachforschung, Martin Luther University Halle-Wittenberg, Germany.
- 09/2018 “Hirnprozesse während des Klavierspielens: Von der musikalischen Idee zur Handlung”, Seminar, Claussen-Simon-Stiftung, Ratzeburg, Germany
- 05/2018 “Musical action planning in expert pianists”, Seminar, Institute for Music in Human and Social Development, University of Edinburgh, UK.
- 02/2018 “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 “The Melodic Mind: Neural bases of intonation in speech and music”, Seminar, University Zurich, Switzerland.
- 02/2017 “Musical action planning in expert pianists”, Seminar, Goldsmiths, University of London, UK.
- 01/2017 “Voice or words – the neural contribution of prosody to communication”, Seminar, Brain Language Laboratory, Free University Berlin, Germany.
- 10/2016 “Motor planning in expert pianists – the special role of musical syntax”, Lecture, Dresden Music Cognition Lab, Technical University Dresden, Germany.
- 08/2016 “Neural networks of music perception and production – the special role of syntax”, Seminar, Helsinki Summer School in Cognitive Neuroscience, Helsinki, Finland.
- 05/2016 “Neural bases of speech prosody”, Colloquium, Bonn Lecture Series in Neuroscience, University Hospital Bonn, Germany.
- 12/2015 “Voice or words – the neural contribution of prosody to communication”, Seminar, School of Psychology, Bangor University, Wales, UK.

- 12/2015 “The brain basis for music and language – in search of common roots”, Seminar, Faculty of Behavioral Sciences, University of Helsinki, Finland.
- 11/2015 “Aesthetic dialogue – Understanding the unsaid”, Workshop on The Future of Empirical Aesthetics, Max Planck Institute for Empirical Aesthetics, Frankfurt/Main, Germany.
- 07/2015 “The music of speech: Fractionating prosody”, Seminar, IMPRS Summer School, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 07/2015 “Pathways for prosody”, Colloquium, Neurocentre, University Hospital Freiburg, Germany.
- 08/2014 “Neural pathways for prosody”, Colloquium, MARCS Institute, University of Western Sydney & Centre of Excellence in Cognition and its Disorders, Macquarie University, Sydney, Australia.
- 11/2013 “Neuronale Entschlüsselung von prosodisch kodierten Sprecherabsichten”, Seminar, Logopädenfachtagung – Sprachentwicklungsforschung und Logopädie, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 10/2013 “Understanding meaning and intentions in speech prosody”, Seminar, Department of General Psychology and Cognitive Neuroscience, Friedrich Schiller University, Jena, Germany.
- 06/2013 “Understanding meaning and intentions in speech intonation”, Colloquium, Institute for Music in Human and Social Development, University of Edinburgh, UK.
- 05/2013 “Understanding meaning and intentions in speech intonation”, Colloquium, Institute of Neuroscience and Psychology, University of Glasgow, UK.
- 04/2013 “Two complementary mechanisms for decoding intentions in speech intonation”, Seminar, School of Critical Studies, University of Glasgow, UK.
- 09/2012 “Disintegration of music and language after brain lesion”, EBRAMUS-workshop, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 12/2011 “Seminar Berufsfelder – Kognitive Neurowissenschaften”, Seminar, Martin Luther University Halle-Wittenberg, Germany.
- 12/2011 “About the relationship of music and language in the human brain”, Colloquium, Institute for Neuroscience and Psychology, University of Glasgow, UK.
- 04/2011 “Hier spricht die Musik – Über die Beziehung von Musik und Prosodie zur Sprachverarbeitung”, Colloquium, Cognitive Neurology Outpatient Clinic, Leipzig, Germany.
- 02/2011 “Music and action: Do they share ‘syntactic’ resources?”, Colloquium, Neuromusic Gesprächskreis, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 05/2011 “About the relationship of music and language in the human brain”, Colloquium, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 05/2010 “Wie das Gehirn Sprache und Musik verarbeitet”, Lecture, Johannes Gutenberg University, Mainz, Germany (together with Angela D. Friederici).
- 08/2009 “Neuropsychologie der Sprach- und Musikwahrnehmung”, Invited Workshop, Evangelische Akademie Villigst, Germany.
- 03/2009 “Cortical representation of syntax in language and music”, Symposium “10 Jahre Epileptologie am Universitätsklinikum Freiburg”, Freiburg, Germany.
- 02/2009 “Cortical representation of syntax in language and music”, Colloquium, Laboratoire “Neurosciences sensorielles, comportement, cognition”, Lyon, France.

Poster presentations (75)

- since 2004 19 posters as first author (16 international)
- since 2006 26 posters as co-author (18 international)
- since 2013 30 posters as senior author (14 international)

Research projects & funding

On-going projects

2018-2020	Neural bases of interpersonal coordinated behaviour during music performance (1 PhD student, funded by Friedrich Naumann Stiftung)
2017-2021	Neural bases of joint music production (1 PhD student, funded by MPI-CBS, Dept. of Neurology)
2016-2020	Neural segregation and integration of intonation and lexical tone: A cross-cultural approach (1 PhD student, funded by IMPRS NeuroCom & Dept. of Neuropsychology)

Past projects

2017-2019	Temporal dynamics of prosody perception (1 PhD student, funded by Otto Hahn Award & MPI-CBS, Dept. of Neuropsychology)
2013-2018	Causal role of IFG in syntax-based motor control of piano performance (material expenses, funded by Otto Hahn Award)
2013-2017	Neural bases of prosodically coded intentions (1 PhD student, funded by Otto Hahn Award)
2012-2017	Principles of musical action planning: the special role of syntax (1 PhD student, funded by Otto Hahn Award & MPI-CBS, Dept. of Neurology)
2010-2016	Influence of neurocognitive entrainment to meter on syntactic comprehension in music and language (1 PhD student, Otto Hahn Award & Minerva Group “Rhythm in Communication”)
2013-2015	Musical joint action investigated with dual EEG (MPRG “Music Cognition and Action” & MARCS Institute, Western Sydney University, Australia)
2011-2013	Pathways for prosody (1 own postdoc-position, Otto Hahn Award)

Funding

2014	<p>“Nonverbal communication in speech and music” – Visiting scholarship</p> <ul style="list-style-type: none"> • Applicant: Dr Daniela Sammler • Funding by: MARCS Institute, Western Sydney University, Australia • Amount: \$9.000 (~€6.200)
2013-2018	<p>“Neural bases of intonation in speech and music” – Otto Hahn Award</p> <ul style="list-style-type: none"> • Applicant: Dr Daniela Sammler • Funding by: Max Planck Society • Amount: ~€800.000
1999-2000	<p>Licence de Psychologie – ERASMUS scholarship</p> <ul style="list-style-type: none"> • Applicant: Daniela Sammler • Funding by: ERASMUS • Amount: €1.200

Teaching & Supervision

Qualifications

2015-2018	Saxonian Certificate in University Didactics (200 teaching units [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 TU)
	“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)
2015	Management Module 2: Research team leader – task, role and challenges (13 TU)

Seminars and lectures

University of Leipzig

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)

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

2016	Language and Music (Lecture, doctoral students)
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University of Cologne

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

- 2013- Mentor for young female scientists in the Minerva-FemmeNet of the Max Planck Society (<http://www.minerva-femmenet.mpg.de>)

Supervision of Post-docs

- 2018-2019 Sven Paßmann [Temporal and functional dynamics of prosody perception]
 2014-2018 Mauricio J. Martins [Neural bases of motor hierarchies]

Supervision of PhD students

- 2018- Katarzyna Gugnowska, [Neural bases of interpersonal coordination during music performance]
 2017- Natalie Kohler, [Neural bases of joint music production]
 2016- Pei-Ju Chien, [Neural segregation and integration of intonation and lexical tone: A cross-cultural approach]
 2013- Nele Hellbernd, [Neural bases of prosodically coded intentions]
 2017-2018 Maria Dotzer, [Temporal and functional dynamics of prosody perception] – career change
 2012-2017 Roberta Bianco, [Principles of action planning in music production: Evidence from fMRI and EEG studies in professional pianists] – defended 2017, University of Leipzig (magna cum laude)

Co-Supervision of PhD students

- 2010- Maria Felber, [Prosody and music] – interruption to study medicine
 2010-2016 Eleanor Elizabeth Harding, [Neurocognitive entrainment to meter influences syntactic comprehension in music and language: An individual-differences approach] – defended 2016, University of Potsdam (summa cum laude)
 2010-2015 Irene Alonso Fernández, [The role of the medial temporal lobe in binding lyrics and melodies: A neuropsychological and neuroimaging approach] – defended 2015, Université Lille Nord-de France, France
 2009-2012 Julia Merrill (née Groh), [Song and speech perception: Evidence from fMRI, lesion studies and musical disorder] – defended 2012, University of Leipzig (summa cum laude)

Co-Supervision of State Examinations

- 2019 Eva-Maria Fridrich, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany [Begriff und Bedeutung sensomotorischer Repräsentationen in instrumentalen Lernproz.]
 2019 Caroline Sanden, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany [Begriff und Bedeutung visueller Repräsentationen in instrumentalen Lernprozessen]
 2019 Annegret Reinhardt, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany [Begriff und Bedeutung auditorischer Repräsentationen in instrumentalen Lernprozessen]
 2019 Maria Gloomtz, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany [Begriff und Bedeutung emotionaler Repräsentationen in instrumentalen Lernprozessen]
 2019 Patrick Ritter, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany [Umgang mit Fehlern in instrumentalen Lernprozessen]
 2019 Pauline Schwinn, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany [Umgang mit Lampenfieber und Podiumsangst in instrumentalen Lernprozessen]
 2019 Ruben Seilnacht, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany

- [Zum Verhältnis von Leistungsdruck, Motivation und Leistungserfolg in instrumentalen Lernprozessen]
- 2018 Sebastian Jung, Lehramt Music, Hochschule für Musik und Theater Leipzig, Germany [Bewältigung der Komplexität in musikalischen Lernprozessen]
- 2018 Martin Schönfelder, Lehramt Musik, Hochschule für Musik und Theater Leipzig, Germany [Rolle der funktionalen Orientierung musikalischer Übemethoden]
- 2018 Julia Schönfelder, Lehramt Musik, Hochschule für Musik und Theater Leipzig, Germany [Motivationspsychologische Aspekte musikalischen Übens]
- 2018 Georg Postulka, Lehramt Musik, Hochschule für Musik und Theater Leipzig, Germany [Automatisierungsprozesse beim Erlernen von Musizierbewegungen]

Diploma and Master students

- exp. 2020 Katharina Roscher, M.Sc. Psychology, University of Regensburg, Germany [Die Rolle von motorischem und sensorischem Priming beim Klavierspiel: Ein Verhaltensexperiment]
- exp. 2020 Jasper Pöhls, M.Sc. Psychology, Martin Luther University Halle-Wittenberg, Germany [The role of IFG in syntax processing during music performance: A tDCS study]
- 2019 Diana Vachtchenko, M.A. Musicology, University Leipzig, Germany [Die Auswirkung von Musik auf das Fitnesstraining]
- 2018 Yvonne Kiesel, M.Sc. Psychology, TU Dresden, Germany [The influence of musical training and cultural immersion on cross-cultural prosody perception]
- 2018 Eléa Dheilley, 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, University of Leipzig, 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' all about the timing: Investigating the temporal nature of interaction between melodic pitch and linguistic prosodic expectancy]
- 2015 Nico Benz, M.A. Linguistics, University of Leipzig, Germany [Reanalyse bei der Verarbeitung hierarchischer Strukturen]
- 2011 Katharina Fath, Diploma in Psychology, Eberhard Karls University Tübingen, Germany [Einfluss von harmonischen 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, University of Leipzig, Germany [Psychophysiological correlates of emotions elicited by nonhuman sounds]

Bachelor's students

- exp. 2020 Alexander Latton, B.A. Musicology, University of Leipzig, Germany [Musical pleasure]

- 2020 Laura Bou-Vinals, B.A. Musicology, University of Leipzig, Germany
[Redefining musician's dystonia – How psychological factors contribute to a physiological disorder]
- 2018 Hanna Ringer, B.Sc. Psychology, University of Leipzig, Germany
[Structural connectivity for syntax-based planning of musical actions]
- 2018 Annika Just, B.Sc. Psychology, University of Leipzig, Germany
[Intentional prosody in German and Mandarin Chinese]
- 2017 Marie Salditt, B.Sc. Psychology, University of Leipzig, Germany
[Conveying and recognizing intentions from prosody – A comparison between a group of non-actors and actors]
- 2017 Hanna Susanna Bethcke, B.Sc. Psychology, University of Leipzig, 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, University of Leipzig, Germany
[Prosodische Äußerung von Intentionen: Ein Vergleich zwischen Schauspielern und Nicht-Schauspielern]
- 2016 Elias Matin, B.Sc. Psychology, University of Leipzig, 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

- 2019 Matthis Fritz (University of Leipzig, Germany)
- 2018 Anna Czepiel (University of Jyväskylä, Finland)
- 2018 Ayaka Tsuchiya (University of Bonn, Germany)
- 2017 Tobias Struck (University of Leipzig, Germany)
- 2017 Hanna Ringer (University of Leipzig, 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 (University of Leipzig, Germany)
- 2016 Natalie Kohler (Goldsmiths University of London, UK)
- 2016 Jannis Starzinski (University of Leipzig, Germany)
- 2016 Jannis Steininger (University of Leipzig, Germany)
- 2015 Elias Matin (University of Leipzig, 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 (University of Leipzig, 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

2018-2019 Hanna Ringer (University of Leipzig, Germany)
2016-2018 Annika Just (University of Leipzig, Germany)
2015-2016 Jasper Pöhls (Martin Luther University Halle-Wittenberg, Germany)
2014-2015 Florian Scharf (University of Leipzig, Germany)
2011-2012 Anne Wagner (University of Leipzig, Germany)
2009-2011 Katrin Cunitz (University of Bremen, Germany)

Public outreach

Science & Art (12)

- 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.
- 06/2018 “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.
- 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.
- 07-12/2015 “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.
- 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.
- 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.

Other public science talks (3)

- 04/2018 “Musik & Sprache: Auf der Suche nach gemeinsamen Wurzeln” [“Music & language: On the quest for common toots], 41. Bibliothekstagung, Leipzig, 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.

06/2014 “Hier spricht die Musik!” [“Here, music speaks for itself!”], public science talk, Long Night of Science, Leipzig, Germany.

TV (4)

- 06/2019 **MDR Wissen:** “Wie entsteht Musikgeschmack?” [“Where does music taste come from?”], documentary on music and emotion
- 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>

Radio (12)

- 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 Schruff 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 (15)

- 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).

Exhibitions (1)

- 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