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* 04.01.1973 in Hanau, Germany
Nationality: German

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EDUCATION

- 1998 - 2003 Ph.D. student at the University of Maastricht, The Netherlands
Faculty of Psychology, Department of Cognitive Neuroscience
- Ph.D. Thesis "Understanding 'garden bench': Studies on the perception of assimilated words forms" (*cum laude*, equivalent to German *summa cum laude*)
- 1993 - 1998 Master in Psychology at the University of Bielefeld, Germany and the
University Leiden, The Netherlands
- majored in "Experimental Psychology"
 - Master Thesis: "Investigations of the Stroop-dilution effect" with Prof. Dr. Neumann (Bielefeld) and Prof. Dr. van der Heijden (Leiden)
- 1992 Abitur at the Hohe Landesschule, Hanau, Germany

POSITIONS

- 2003 - Max Planck Institute for Psycholinguistics, Comprehension Group
Scientific Staff Member
- independent scientific work
 - supervision of Masters- and Ph.D. Students
- 1998 - 2003 University of Maastricht
- 80% position as Ph.D. Student (*assistent in opleiding*)
 - 20% position as junior lecturer
- 1992 - 1993 City of Bruchköbel, Germany
- Civil service (care for the severely handicapped)

RESEARCH INTERESTS

THE INVARIANCE PROBLEM IN SPEECH PERCEPTION: Recognition of phonological variant forms arising from assimilation, reduction, and deletion; compensation for physical and socio-linguistic speaker differences through auditory processes and perceptual learning; the mismatch negativity as a tool for speech-perception research

MECHANISM OF LANGUAGE PROCESSING: The relation of speech processing to other perceptual processes in hearing & vision; speech production and perception in dialogue; speech as a cultural artifact; phonological representations in normal L1 and L2 processing as well as in impaired (i.e., dyslexic) processing

TEACHING & SUPERVISION

EDUCATION FOR TEACHING: Training at the University of Maastricht (with certificate in "Problem-based Learning")

UNDERGRADUATE LEVEL: Courses taught on Statistics and Research Methods, Cognitive Psychology, Psycholinguistics, Auditory and Speech perception; supervision of undergraduate interns. Guest Lecturer at the University of Konstanz for "Neurolinguistics"

GRADUATE LEVEL: Supervision of Master and Ph.D. Students, Max Planck Research School course "Programming for Psycholinguists"

GRANTS

2009-2012 Grant from the Deutsche Forschungsgemeinschaft (German Research Council, DFG) in the framework of the Priority Program 1234 "Phonological and phonetic competence", Project: "Adapting to phonological reduction: Tracking how learning from talker-specific episodes helps listeners recognize reduced speech" (3 years, 110k€)

2006-2009 Grant from the Deutsche Forschungsgemeinschaft (German Research Council, DFG) in the framework of the Priority Program 1234 "Phonological and phonetic competence", Project: "The functional phonology of reduced forms" (3 years, 40k€)

2000 Travel grant awarded by the 2nd International Congress on Mismatch Negativity and its Clinical Applications (2k€)

SKILLS

LANGUAGES: German (native), English and Dutch (near-native), Latin

METHODS: EEG data-acquisition and -analysis with MatLab, NeuroScan, or BrainVision
Own toolbox for eye-movement analysis (written in PERL)
Auditory signal analysis and manipulation for the speech signal
Advanced Statistics (using R) and Linear Algebra

PROFESSIONAL SERVICES

REVIEWING

- PSYCHOLOGY:

Attention, Perception & Psychophysics. Cognition, Journal of Experimental Psychology: Human Perception and Performance, Journal of Memory and Language, Quarterly Journal of Experimental Psychology, Developmental Science

- LINGUISTICS

Journal of Phonetics, Journal of Speech, Language, and Hearing Research, Phonology, Speech Communication

- COGNITIVE NEUROSCIENCE

Brain Research, Journal of Cognitive Neuroscience, Proceedings of the National Academy of Science, Psychophysiology

- GRANT AGENCIES

National Science Foundation (NSF), Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO), Marsden Fund (New Zealand)

WORKSHOPS AND CONFERENCE ORGANIZATION: Phonetics & Phonology 4 Meeting, October 2007, Nijmegen; 2nd meeting of the DFG Priority Program 1234 "Phonetic and phonological competence", October 2007, Nijmegen; 11th Winter conference of the Nederlandse Vereniging voor Psychonomie (Dutch Psychonomic Association), December 2007, Egmond aan Zee; 12th Winter conference of the Nederlandse Vereniging voor Psychonomie (Dutch Psychonomic Association) on Cognition, Brain, & Behavior, December 2009, Egmond aan Zee

EDITOR: 2006 Annual Report of the Max Planck Institute for Psycholinguistics

MEMBER of the Editorial Board of Journal of Phonetics

TREASURER of the Nederlandse Vereniging voor Psychonomie (Dutch Psychonomic Society)

MEMBERSHIPS: ISCA, NVP, Psychonomic Society (Full Member)

INVITED PRESENTATIONS

- 27.07.2012. Invited discussant at the 13. "Laboratory Phonology" Conference, Stuttgart.
- 22.02.2012. Lecturer at the BiMM 2012: Bielefeld Mixed Models Workshop.
- 09.12.2011. Keynote speaker at the Workshop "Accommodation to a dialogue partner in perception and production", Laboratoire Parole et Langage, Aix-en-Provence, France.
- 17.06.2011. Language and Cognition Colloquium Birmingham University "Using Prior Knowledge to Adjust the Perception of Tones, Phones, Accents, and Colours".
- 13.09.2010. Colloquium LMU München, Institut für Phonetik und Sprachverarbeitung: "Shadowing, phonetic imitation, and the role of articulatory gestures in speech perception".
- 08.03.2010. Bristol University, UK: Workshop on *Psycholinguistic Approaches to Speech Perception in Adverse Conditions*: "Perception of phonologically reduced variants in conversational speech".
- 16.04.2010. Universiteit van Amsterdam, Workshop on *Using Eye-tracking in Linguistics and Cognitive Science*: "Eye-tracking reveals how we deal with phonological variants" & "Data collection and analysis in the visual world paradigm".
- 08.10.2009. Emory University, Atlanta, GA: " Knowledge-guided perceptual learning in speech: theoretical and practical implications".
- 02.02.2009. Colloquium LMU München, Institut für Phonetik und Sprachverarbeitung: " How speech is special, ... and not".
- 18.11.2008. Ohio State University, Columbus, OH, Colloquium Psychology & Linguistics: "Context effects on different processing levels in the perception of speech".
- 30.10.2008. Universiteit Leiden, Colloquium Language & Communication: "How speech is special, ... and not".
- 15.06.2008. Radboud Universiteit Nijmegen, *The First Nijmegen Speech Reduction Workshop: Disappearing sound*: "Different processing mechanisms for apparently similar reductions" (with Mirjam Ernestus and James McQueen).
- 26.05.2008. RWTH Aachen, Colloquium Psychology: "How speech is special, ... and not".
- 08.02.2007. Universität Stuttgart, Colloquium am Institut für maschinelle Sprachverarbeitung: "Context effects on different processing levels in the perception of speech".
- 25.10.2006. Universiteit Leiden, Colloquium Psychologie: "Challenges of connected-speech processing: The case of word-final /t/".

PUBLICATIONS

- JOURNALS (peer-reviewed)
- Brouwer, S., Mitterer, H., & Huettig, F. (in press). Can hearing puter activate pupil? Phonological competition and the processing of reduced spoken words in spontaneous conversations. *Quarterly Journal of Experimental Psychology*.
- Brouwer, S., Mitterer, H., & Huettig, F. (in press). Discourse context and the recognition of reduced and canonical spoken words. *Applied Psycholinguistics*.
- Mitterer, H., & Russell, K. (in press). How phonological reductions sometimes help the listener. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- Noordenbos, M.W., Segers, E., Serniclaes, W., Mitterer, H., & Verhoeven, L. (in press). Allophonic mode of speech perception in children at risk for dyslexia: a longitudinal study. *Research in Developmental Disabilities*.
- Noordenbos, M.W., Segers, E., Serniclaes, W., Mitterer, H., & Verhoeven, L. (2012). Neural evidence of allophonic perception in children at risk for dyslexia. *Neuropsychologia*, Advance online publication. doi:[10.1016/j.neuropsychologia.2012.04.026](https://doi.org/10.1016/j.neuropsychologia.2012.04.026)
- Oliver, G., Gullberg, M., Hellwig, F., Mitterer, H., & Indefrey, P. (in press). Acquiring L2 sentence comprehension: A longitudinal study of word monitoring in noise. *Bilingualism: Language and Cognition*.
- Tuinman, A., Mitterer, H., & Cutler, A. (in press). Resolving ambiguity in familiar and unfamiliar casual speech *Journal of Memory of Language*.
- Brouwer, S., Mitterer, H., & Huettig, F. (2012). Speech reductions change the dynamics of competition during spoken word recognition. *Language and Cognitive Processes*, 27, 539-571. doi:[10.1080/01690965.2011.555268](https://doi.org/10.1080/01690965.2011.555268)
- Escudero, P., Simon, E., & Mitterer, H. (2012). The perception of English front vowels by North Holland and Flemish listeners: Acoustic similarity predicts and explains cross-linguistic and L2 perception. *Journal of Phonetics*, 40, 280-288. doi:[10.1016/j.wocn.2011.11.004](https://doi.org/10.1016/j.wocn.2011.11.004)
- Sjerps, M., Mitterer, H., & McQueen, J.M. (2012). Hemispheric differences in the effects of context on vowel perception. *Brain and Language*, , 120-405. doi:[10.1016/j.bandl.2011.12.012](https://doi.org/10.1016/j.bandl.2011.12.012)
- Davids, N., Segers, E., van den Brink, D., Mitterer, H., van Balkom, H., Hagoort, P., & Verhoeven, L. (2011). The nature of auditory discrimination problems in children with specific language impairment: An MMN study. *Neuropsychologia*, 49, 19-28. doi:[10.1016/j.neuropsychologia.2010.11.001](https://doi.org/10.1016/j.neuropsychologia.2010.11.001)
- Hanulíková, A., Mitterer, H., & McQueen, J.M. (2011). Effects of first and second language on segmentation of non-native speech. *Bilingualism*, 14, 506-521. doi:[10.1017/S1366728910000428](https://doi.org/10.1017/S1366728910000428)
- Mitterer, H. (2011). Recognizing reduced forms: Different processing mechanisms for similar reductions. *Journal of Phonetics*, 39, 298-303. doi:[10.1016/j.wocn.2010.11.009](https://doi.org/10.1016/j.wocn.2010.11.009)
- Mitterer, H. (2011). The mental lexicon is fully specified: Evidence from eye-tracking. *Journal of Experimental Psychology: Human Perception and Performance*, 37, 496-513. doi:[10.1037/a0020989](https://doi.org/10.1037/a0020989)
- Mitterer, H., Chen, Y., & Zhou, X.L. (2011). Phonological abstraction in processing lexical-tone variation: Evidence from a learning paradigm. *Cognitive Science*, 35, 184-197. doi:[10.1111/j.1551-6709.2010.01140.x](https://doi.org/10.1111/j.1551-6709.2010.01140.x)
- Sjerps, M., Mitterer, H., & McQueen, J.M. (2011). Constraints on the processes responsible for the extrinsic normalization of vowels. *Attention, Perception, & Psychophysics*, 73, 1195-1215. doi:[10.3758/s13414-011-0096-8](https://doi.org/10.3758/s13414-011-0096-8)
- Sjerps, M.J., Mitterer, H., & McQueen, J.M. (2011). Listening to different speakers: On the time-

- course of perceptual compensation for vocal-tract characteristics. *Neuropsychologia*, 49, 3831-3846. doi:[10.1016/j.neuropsychologia.2011.09.044](https://doi.org/10.1016/j.neuropsychologia.2011.09.044)
- Tuinman, A., Mitterer, H., & Cutler, A. (2011). Perception of intrusive /r/ in English by native, cross-language and cross-dialect listeners. *Journal of the Acoustical Society of America*, 130, 1643-1652. doi:[10.1121/1.3619793](https://doi.org/10.1121/1.3619793)
- Mitterer, H., & Jesse, A. (2010). Correlation versus causation in multisensory perception. *Psychonomic Bulletin & Review*, 17, 329-334. doi:[10.3758/PBR.17.3.329](https://doi.org/10.3758/PBR.17.3.329)
- Brouwer, S., Mitterer, H., & Huettig, F. (2010). Shadowing reduced speech and alignment. *Journal of The Acoustical Society of America*, 128, EL32-EL37. doi:[10.1121/1.3448022](https://doi.org/10.1121/1.3448022)
- Hanulíková, A., McQueen, J.M., & Mitterer, H. (2010). Possible words and fixed stress in the segmentation of Slovak speech. *Quarterly Journal of Experimental Psychology*, 63, 555-579. doi:[10.1080/17470210903038958](https://doi.org/10.1080/17470210903038958)
- Mitterer, H., & McQueen, J.M. (2009). Foreign subtitles help but native-language subtitles harm foreign speech perception. *PLoS One*, 4, A146-A150. doi:[10.1371/journal.pone.0007785](https://doi.org/10.1371/journal.pone.0007785)
- Mitterer, H., Horschig, J.M., Müsseler, J., & Majid, A. (2009). The influence of memory on perception: It's not what things look like, it's what you call them. *Journal of Experimental Psychology: Learning Memory and Cognition*, 35, 1557-1562. doi:[10.1037/a0017019](https://doi.org/10.1037/a0017019)
- Davids, N., van den Brink, D., van Turenout, M., Mitterer, H., & Verhoeven, L. (2009). Towards neurophysiological assessment of phonemic discrimination: Context effects of the mismatch negativity. *Clinical Neurophysiology*, 120, 1078-1086. doi:[10.1016/j.clinph.2009.01.018](https://doi.org/10.1016/j.clinph.2009.01.018)
- Mitterer, H., & McQueen, J.M. (2009). Processing reduced word-forms in speech perception using probabilistic knowledge about speech production. *Journal of Experimental Psychology: Human Perception and Performance*, 35, 244-263. doi:[10.1037/a0012730](https://doi.org/10.1037/a0012730)
- Mitterer, H., & Ernestus, M. (2008). The link between speech perception and production is phonological and abstract: Evidence from the shadowing task. *Cognition*, 109, 168-173. doi:[10.1016/j.cognition.2008.08.002](https://doi.org/10.1016/j.cognition.2008.08.002)
- Mitterer, H., & de Ruiter, J.P. (2008). Recalibrating color categories using world knowledge. *Psychological Science*, 19, 629-634. doi:[10.1111/j.1467-9280.2008.02133.x](https://doi.org/10.1111/j.1467-9280.2008.02133.x)
- Mitterer, H., Yoneyama, K., & Ernestus, M. (2008). How we hear what is hardly there: Mechanisms underlying compensation for /t/-reduction in speech comprehension. *Journal of Memory and Language*, 59, 133-152. doi:[10.1016/j.jml.2008.02.004](https://doi.org/10.1016/j.jml.2008.02.004)
- Escudero, P., Hayes-Harb, R., & Mitterer, H. (2008). Novel second-language words and asymmetric lexical access. *Journal of Phonetics*, 36, 345-360. doi:[10.1016/j.wocn.2007.11.002](https://doi.org/10.1016/j.wocn.2007.11.002)
- Mitterer, H. (2006). On the causes of compensation for coarticulation: Evidence for phonological mediation. *Perception & Psychophysics*, 68, 1227-1240. doi:[10.3758/BF03193723](https://doi.org/10.3758/BF03193723)
- Mitterer, H. (2006). Is vowel normalization independent of lexical processing? *Phonetica*, 63, 209-229. doi:[10.1159/000097306](https://doi.org/10.1159/000097306)
- De Ruiter, J.P., Mitterer, H., & Enfield, N.J. (2006). Projecting the end of a speaker's turn: A cognitive cornerstone of conversation. *Language*, 82, 515-535. doi:[10.1353/lan.2006.0130](https://doi.org/10.1353/lan.2006.0130)
- Mitterer, H., Csépe, V., & Blomert, L. (2006). The role of perceptual integration in the recognition of assimilated word forms. *Quarterly Journal of Experimental Psychology*, 59, 1395-1424. doi:[10.1080/17470210500198726](https://doi.org/10.1080/17470210500198726)
- Mitterer, H., Csépe, V., Honbolygo, F., & Blomert, L. (2006). The recognition of phonologically assimilated words does not depend on specific language experience. *Cognitive Science*, 30, 451-479. doi:[10.1207/s15516709cog0000_57](https://doi.org/10.1207/s15516709cog0000_57)
- Mitterer, H., & Ernestus, M. (2006). Listeners recover /t/s that speakers reduce: Evidence from

- /t/-lenition in Dutch. *Journal of Phonetics*, 34, 73-103. doi:[10.1016/j.wocn.2005.03.003](https://doi.org/10.1016/j.wocn.2005.03.003)
- Bonte, M.L., Mitterer, H., Zellagui, N., Poelmans, H., & Blomert, L. (2005). Auditory cortical tuning to statistical regularities in phonology. *Clinical Neurophysiology*, 116, 2765-2774. doi:[10.1016/j.clinph.2005.08.012](https://doi.org/10.1016/j.clinph.2005.08.012)
- Blomert, L., Mitterer, H., & Paffen, C. (2004). In search of the auditory, phonetic, and/or phonological problems in dyslexia: Context effects in speech perception. *Journal of Speech Language and Hearing Research*, 47, 1030-1047. doi:[10.1044/1092-4388\(2004/077\)](https://doi.org/10.1044/1092-4388(2004/077))
- Blomert, L., & Mitterer, H. (2004). The fragile nature of the speech-perception deficit in dyslexia: Natural vs. synthetic speech. *Brain and Language*, 89, 21-26. doi:[10.1016/S0093-934X\(03\)00305-5](https://doi.org/10.1016/S0093-934X(03)00305-5)
- Mitterer, H., & Blomert, L. (2003). Coping with phonological assimilation in speech perception: Evidence for early compensation. *Perception & Psychophysics*, 65, 956-969. doi:[10.3758/BF03194826](https://doi.org/10.3758/BF03194826)
- Mitterer, H., La Heij, W., & Van der Heijden, A.H.C. (2003). Stroop dilution but not word-processing dilution: evidence for attention capture. *Psychological Research/Psychologische Forschung*, 67, 30-42. doi:[10.1007/s00426-002-0108-3](https://doi.org/10.1007/s00426-002-0108-3)
- CONFERENCE PROCEEDINGS
- Jesse, A. & Mitterer, H. (2011). Pointing gestures do not influence the perception of lexical stress. In *Proceedings of Interspeech 2011*, Florence, Italy.
- Scharenborg, O., McQueen, J.M., & Mitterer, H. (2011). Perceptual learning of liquids. In *Proceedings of Interspeech 2011*, Florence, Italy.
- Poellmann, K., McQueen, J.M., & Mitterer, H. (2011). The time course of perceptual learning. *Proceedings of the 17th International Congress of Phonetic Sciences, Hongkong*.
- Tuinman, A., Mitterer, H., & Cutler, A. (2011). The efficiency of cross-dialectal word recognition. In *Proceedings of Interspeech 2011*, Florence, Italy.
- Cutler, A., Mitterer, H., Tuinman, A., Brouwer, S. (2010). Phonological competition in casual speech. In *Proceedings of DiSS-LPSS Joint Workshop 2010* (pp. 43-46).
- Mitterer, H. (2008). How are words reduced in spontaneous speech?. In A. Botinis (Ed.), *Proceedings of the ISCA Tutorial and Research Workshop on Experimental Linguistics* (pp. 165-168). Athens: University of Athens.
- Mitterer, H. (2007). Top-down effects on compensation for coarticulation are not replicable. *Proceedings of the 8th Annual Conference of the International Speech Communication Association* (pp. 1601-1604). Bonn, Germany: ISCA.
- Mitterer, H. (2007). Behavior reflects the (degree of) reality of phonological features in the brain as well. In J. Trouvain & W. J. Barry (Eds.), *Proceedings of the 16th International Congress of Phonetic Sciences* (pp. 127-130). Dudweiler, Germany: Pirrot.
- Mitterer, H. & McQueen (2007). Tracking perception of pronunciation variation by tracking looks to printed words: The case of word-final /t/. In J. Trouvain & W. J. Barry (Eds.), *Proceedings of the 16th International Congress of Phonetic Sciences* (pp. 1929-1932). Dudweiler, Germany: Pirrot.
- Tuinman, A., Mitterer, H., & Cutler, A. (2007). Speakers differentiate English intrusive and onset /r/, but L2 listeners do not. In J. Trouvain & W. J. Barry (Eds.), *Proceedings of the 16th International Congress of Phonetic Sciences* (pp. 1905-1908). Dudweiler, Germany: Pirrot.
- Kuzla, C., Mitterer, H., Ernestus, M. & Cutler, A. (2006). Perceptual compensation for voice assimilation of German fricatives. *Proceedings of the 11th Australasian International Conference on Speech Science and Technology, Auckland, December* (pp. 394-399).
- Mitterer, H. (2005). Short- and medium-term plasticity for speaker adaptation seem to be independent. *Proceedings of ISCA Workshop on Plasticity in Speech Perception (PSP2005)* (p. 83-86).

Geneva, France: ISCA.

- McQueen, J. & Mitterer, H. (2005). Lexically-driven perceptual adjustments of vowel categories. *Proceedings of ISCA Workshop on Plasticity in Speech Perception (PSP2005)* (p. 233-236). Geneva, France: ISCA.
- Mitterer, H. Csépe, V. & Blomert, L. (2003). Compensation for phonological assimilation in perception: Evidence from Hungarian liquid assimilation. *Proceedings of the 15th International Congress of Phonetic Sciences* (pp. 2321-2324).
- Mitterer, H. & Blomert, L. (2002). Filtering out place assimilations in perception I: Context-sensitivity at an acoustic/phonetic level. In Sarah Hawkins and Noël Nguyen (Eds.), *Temporal Integration in the Perception of Speech* (8-10 April 2002, Aix-en-Provence).
- Mitterer, H. & Blomert, L. (2002). Filtering out place assimilations in perception II: Length does matter. In Sarah Hawkins and Noël Nguyen (Eds.), *Temporal Integration in the Perception of Speech* (8-10 April 2002, Aix-en-Provence).
- Blomert, L., Mitterer, H., & Paffen C. (2002). Speech perception in dyslexia: Auditory, phonetic, and phonological context effects. In Sarah Hawkins and Noël Nguyen (Eds.), *Temporal Integration in the Perception of Speech* (8-10 April 2002, Aix-en-Provence).
- Mitterer, H. (2000). Are connected-speech processes selected for communicative consequences? In B. de Boer & P. Vogt (Eds.), *Proceedings of the Benevolang Workshop 2000* (pp. 31-34). Brussels: Vrije Universiteit Brussel.

PRESS ECHO

- "drop danske undertekstar" (drop Danish subtitles), Danmarks Radio (Danish TV News, November 13, 2009) on Mitterer & McQueen (PlosOne, 2009)
- "Kino ohne Wirkung" (cinema without effect), Süddeutsche Zeitung (Germany, November 12, 2009) on Mitterer & McQueen (PlosOne, 2009)
- "Ondertiteling belemmert begrip van het Engels" (Subtitling impedes developing listening skills), NRC Handelsblad (The Netherlands November 12, 2009) on Mitterer & McQueen (PlosOne, 2009)
- "Textning gynnar inte alltid inlärning" (Subtitle do not always help learning), Vetenskapsradion (Sweden, November 11, 2009) on Mitterer & McQueen (PlosOne, 2009)
- "Scottish as a Second Language", ScienceNow, Online Magazine of *Science* (posted November 11, 2009) on Mitterer & McQueen (PlosOne, 2009)
- "Film-Untertitel helfen beim Sprachenlernen" (Subtitles facilitate language learning) Spiegel Online (Germany, posted November 11, 2009) on Mitterer & McQueen (PlosOne, 2009)
- "Geel is niet altijd geel" (Yellow is not always yellow), Interview by Radio Gelderland (aired November 10, 2009) on Mitterer, Horschig, Müsseler, & Majid, (JEP:LMC, 2009)
- "Wortel betekent kleur" (Carrot means colour) Quest Magazine (The Netherlands, issue October 2008) on Mitterer & de Rooter, (Psychological Science 2008)