

Christian Brandt
Department of Clinical Research
KI, OUH, Research unit of Oto Rhino Laryngology (Odense)
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Employment

Department of Clinical Research

1. Mar 2024 → 30. Jun 2025

Associate Professor

KI, OUH, Research unit of Oto Rhino Laryngology (Odense)

1. Mar 2024 → 30. Jun 2025

Research outputs

Masked speech recognition by 6–13-year-olds with early-childhood otitis media: Effects of acoustic condition and otologic history

Koiek, S., Brandt, C., Möller, S., Dillon, H. & Neher, T., 20. May 2024, (E-pub ahead of print) In: International Journal of Audiology. p. 1-8

Speech comprehension by cochlear implant users assessed with evoked potentials and response times

Deshpande, P., Van Yper, L., Christiansen, S., Brandt, C., Debener, S. & Neher, T., 27. Apr 2024, (E-pub ahead of print) In: Audiology and Neurotology.

Self-reported hearing handicap for older adults: Questionnaire evaluation and relation to common audiological measures

Goicke, S., Brandt, C., Humes, L. & Neher, T., 5. Apr 2024, (Accepted/In press).

Does experience with hearing aid amplification influence electrophysiological measures of speech comprehension?

Deshpande, P., Brandt, C., Debener, S. & Neher, T., 27. Nov 2023, (E-pub ahead of print) In: International Journal of Audiology. p. 1-10 10 p.

Subgroups among APD children

Brandt, C., Ørebro, T. M. & Winther, C. G., 27. Oct 2023.

Speech Comprehension In Cochlear Implant Users Assessed With Evoked Potentials And Response Times

Deshpande, P., Van Yper, L. N., Christiansen, S., Brandt, C., Debener, S. & Neher, T., 23. Aug 2023.

Comparison of Chirp ABR with and without Bayesian Weighting

Hallak, O. N., El-Haj-Ali, M. & Brandt, C., 27. Jul 2023.

Monaural and binaural phase sensitivity in school-age children with early-childhood otitis media

Koiek, S., Brandt, C., Schmidt, J. H. & Neher, T., Dec 2022, In: International Journal of Audiology. 61, 12, p. 1054-1061

Comparing clinically applicable behavioral and electrophysiological measures of speech detection, discrimination, and comprehension

Deshpande, P., Brandt, C., Debener, S. & Neher, T., 24. Nov 2022, In: Trends in Hearing. 26, 13 p.

Dopamine influences attentional rate modulation in Macaque posterior parietal cortex.

van Kempen, J., Brandt, C., Distler, C., Bellgrove, M. A. & Thiele, A., 28. Apr 2022, In: Scientific Reports. 12, 14 p., 6914.

Contribution of Ionotropic Glutamatergic Receptors to Excitability and Attentional Signals in Macaque Frontal Eye Field
Dasilva, M., Brandt, C., Alwin Gieselmann, M., Distler, C. & Thiele, A., 10. Jun 2021, In: *Cerebral Cortex*. 31, 7, p. 3266-3284

Three auditory brainstem response (ABR) methods tested and compared in two anuran species

Lauridsen, T. B., Brandt, C. & Christensen-Dalsgaard, J., 19. Jan 2021, In: *The Journal of Experimental Biology*. 224, 2, 8 p., jeb237313.

Characterizing the speech-in-noise abilities of school-age children with a history of middle-ear diseases

Koiek, S., Nielsen, J. B., Brandt, C., Hvass Schmidt, J. & Neher, T., 26. Mar 2020, *Auditory Learning in Biological and Artificial Systems: Proceedings of the International Symposium on Auditory and Audiological Research*. Kressner, A. A., Regev, J., Christensen-Dalsgaard, J., Tranebjærg, L., Santurette, S. & Dau, T. (eds.). p. 437-444 (The ISAAR proceedings).

Cell class-specific modulation of attentional signals by acetylcholine in macaque frontal eye field

Dasilva, M., Brandt, C., Gotthardt, S., Gieselmann, M. A., Distler, C. & Thiele, A., 1. Oct 2019, In: *Proceedings of the National Academy of Sciences (PNAS)*. 116, 40, p. 20180-20189

Characterizing the binaural hearing abilities of school-age children with a history of middle-ear-diseases.

Koiek, S., Nielsen, J. B., Brandt, C., Schmidt, J. H. & Neher, T., 9. Jun 2019.

The Masked ABR (mABR): a New Measurement Method for the Auditory Brainstem Response

Brandt, C., Brande-Lavridsen, N. & Christensen-Dalsgaard, J., Dec 2018, In: *JARO - Journal of the Association for Research in Otolaryngology*. 19, 6, p. 753-761

Implementation and evaluation of a Danish test battery for auditory processing disorder in children

Pedersen, E. R., Dahl-Hansen, B., Christensen-Dalsgaard, J. & Brandt, C., Aug 2017, In: *International Journal of Audiology*. 56, 8, p. 538-549

A user-operated audiometry method based on the maximum likelihood principle and the two-alternative forced-choice paradigm

Schmidt, J. H., Brandt, C., Pedersen, E. R., Christensen-Dalsgaard, J., Andersen, T., Poulsen, T. & Bælum, J., Jun 2014, In: *International Journal of Audiology*. 53, 6, p. 383-391

Biophysics of directional hearing in the American alligator (*Alligator mississippiensis*)

Bierman, H. S., Thornton, J. L., Jones, H. G., Koka, K., Young, B. A., Brandt, C., Christensen-Dalsgaard, J., Carr, C. E. & Tollin, D. J., 2014, In: *Journal of Experimental Biology*. 217, 7, p. 1094-1107

Development of vocalization and hearing in American mink (*Neovison vison*)

Brandt, C., Malmkvist, J., Nielsen, R. L., Brande-Lavridsen, N. & Surlykke, A., 2013, In: *Journal of Experimental Biology*. 216, 18, p. 3542-3550

Hearing with an atympanic ear: good vibration and poor sound-pressure detection in the royal python, *Python regius*

Christensen, C. B., Christensen-Dalsgaard, J., Brandt, C. & Madsen, P. T., 2012, In: *Journal of Experimental Biology*. 215, Pt 2, p. 331-42

Importance of Hearing for Survival of Danio rerio (Zebrafish) in an Experimental Predator/Prey Environment

Jørgensen, R. A., Brandt, C., Wahlberg, M. & Christensen-Dalsgaard, J., 2012, In: *Advances in Experimental Medicine and Biology*. 730, p. 117-9 3 p.

Specialization for underwater hearing by the tympanic middle ear of the turtle, *Trachemys scripta elegans*

Christensen-Dalsgaard, J., Brandt, C., Willis, K. L., Christensen, C. B., Ketten, D., Edds-Walton, P., Fay, R. R., Madsen, P. T. & Carr, C. E., 2012, In: *Proceedings of the Royal Society B: Biological Sciences*. 279, 1739, p. 2816-2824 9 p.

Auditory Brainstem Responses and Otoacoustic Emissions in Lizards: Comparisons across Species and Temperatures
Brandt, C., Bergevin, C., Velenovsky, D., Bonine, K. & Christensen-Dalsgaard, J., 19. Feb 2011.

Directionally Sensitive Auditory Brainstem Responses in the American Alligator (*Alligator mississippiensis*)
Bierman, H., Carr, C. E., Brandt, C., Young, B. & Christensen-Dalsgaard, J., 2011.

Hearing in the African lungfish, *Protopterus annectens*

Christensen-Dalsgaard, J., Brandt, C., Wilson, M., Wahlberg, M. & Madsen, P. T., 2011, *The Biology of Lungfishes*. Mørup Jørgensen, J. & Joss, J. (eds.). CRC Press, p. 501-510 10 p.

Synchronized Bilateral Synaptic Inputs to *Drosophila melanogaster* Neuropeptidergic Rest/Arousal Neurons

McCarthy, E. V., Wu, Y., deCarvalho, T., Brandt, C., Cao, G. & Nitabach, M. N., 2011, In: *Journal of Neuroscience*. 31, 22, p. 8181-8193 13 p.

A user-operated Two-Alternative Forced Choice Audiometry system for use in monitoring Hearing in Professional Musicians.

Schmidt, J. H., Brandt, C., Christensen-Dalsgaard, J., Andersen, T. & Bælum, J., 2010.

Hearing in the African lungfish, *Protopterus annectens*

Christensen-Dalsgaard, J., Brandt, C., Wilson, M., Wahlberg, M. & Madsen, P. T., 2010, *The Biology of Lungfishes*. Jørgensen, J. M. & Joss, J. (eds.). CRC Press, p. 503-510

Hearing in the red-eared slider turtle, *Trachemys scripta elegans*

Christensen-Dalsgaard, J., Carr, C. E., Madsen, P. T., Brandt, C., Willis, K., Ketten, D., Edds-Walton, P. & Fay, R. R., 2010.

Obskur auditorisk dysfunktion forårsaget af lokaliserede cochleære defakter

Brandt, C., 2010, Syddansk Universitet. Det Naturvidenskabelige Fakultet.

Specialisation for underwater hearing in the red-eared slider turtle, *Trachemys scripta elegans*.

Christensen-Dalsgaard, J., Carr, C. E., Madsen, P. T., Brandt, C., Willis, K., Ketten, D., Edds-Walton, P. & Fay, R. R., 2010.

New methods to investigate hearing level and sound exposure in professional musicians

Schmidt, J. H., Brandt, C., Christensen-Dalsgaard, J., Andersen, T., Juhl, P. M., Poulsen, T. & Bælum, J., 28. Oct 2009.

Test person operated 2-Alternative Forced Choice Audiometry compared to traditional audiometry

Schmidt, J. H., Brandt, C., Christensen-Dalsgaard, J., Andersen, T., Bælum, J. & Poulsen, T., 2009.

Activities

The Impact Of Otitis Media On Peripheral And Central Auditory Processing: A Scoping Review

Lindsey Nadine Van Yper (Author), Christian Brandt (Co-author), Malene Korsholm (Co-author), Christian Godballe (Co-author), Jesper Hvass Schmidt (Co-author) & Tobias Neher (Co-author)

23. Aug 2023 → 25. Aug 2023

Cortical responses reflecting comprehension abilities evoked with auditory, visual, and visual-then-auditory stimuli:

Normal-hearing participants vs. cochlear implant users

Pushkar Deshpande (Author), Lindsey Van Yper (Co-author), Christian Brandt (Co-author), Stefan Debener (Co-author) & Tobias Neher (Co-author)

3. May 2023 → 6. May 2023

Samarbejde og Autorisation af nye faggrupper - En mulighed for at styrke kapacitet og kvalitet og samarbejde inden for audiologi i en demografisk udfordret fremtid.

Ågot Møller Grøntved (Lecturer), Christian Brandt (Co-author), Helle Jung Andersen (Co-author) & Jesper Hvass Schmidt (Co-author)
21. Apr 2023

Cortical responses reflecting comprehension abilities evoked with auditory, visual, and visual-then-auditory stimuli: Normal-hearing participants vs. cochlear implant users

Pushkar Deshpande (Author), Lindsey Van Yper (Co-author), Christian Brandt (Co-author), Stefan Debener (Co-author) & Tobias Neher (Co-author)
11. Feb 2023 → 15. Feb 2023

The impact of otitis media on peripheral and central-auditory processing: A systematic review

Lindsey Van Yper (Author), Christian Brandt (Co-author), Malene Korsholm (Co-author), Christian Godballe (Co-author), Jesper Schmidt (Co-author) & Tobias Neher (Co-author)
11. Feb 2023 → 15. Feb 2023

Cortical responses reflecting comprehension abilities evoked with auditory, visual, and visual-then-auditory stimuli: Normal-hearing participants vs. cochlear implant users

Pushkar Deshpande (Author), Lindsey Van Yper (Co-author), Christian Brandt (Co-author), Stefan Debener (Co-author) & Tobias Neher (Co-author)
7. Oct 2022 → 8. Oct 2022

Influence of hearing aid experience on electrophysiological measures of speech detection, discrimination, and comprehension

Pushkar Deshpande (Author), Christian Brandt (Co-author), Jesper Schmidt (Co-author), Stefan Debener (Co-author) & Tobias Neher (Co-author)
10. Aug 2022 → 14. Aug 2022

Influence of hearing-aid experience on behavioral and electro-physiological measures of speech detection, discrimination, and comprehension

Pushkar Deshpande (Speaker), Amalie T. Stubberup (Co-author), Christian Brandt (Co-author), Stefan Debener (Co-author) & Tobias Neher (Co-author)
1. Jun 2022 → 3. Jun 2022

Long-term hearing abilities in noise in school-age children with early-childhood otitis media

Shno Koiek (Speaker), Jesper Schmidt (Co-author), Harvey Dillon (Co-author), Christian Brandt (Co-author) & Tobias Neher (Co-author)
1. Jun 2022 → 3. Jun 2022

Influence of hearing aid experience on behavioral and electrophysiological measures of speech detection, discrimination and comprehension

Pushkar Deshpande (Author), Christian Brandt (Co-author), Jesper Schmidt (Co-author), Stefan Debener (Co-author) & Tobias Neher (Co-author)
10. Apr 2022 → 13. Apr 2022

Long-term hearing abilities in noise in school-age children with early-childhood otitis media

Shno Koiek (Author), Jesper Schmidt (Co-author), Harvey Dillon (Co-author), Christian Brandt (Co-author) & Tobias Neher (Co-author)
10. Apr 2022 → 13. Apr 2022

A digit-based behavioral and electrophysiological test battery for assessing different speech processing abilities

Pushkar Deshpande (Author), Christian Brandt (Co-author), Stefan Debener (Co-author) & Tobias Neher (Co-author)
25. Aug 2021

Do school-age children with a history of recurrent otitis media show binaural speech-in-noise processing deficits?

Shno Koiek (Author), Jens Bo Nielsen (Co-author), Harvey Dillon (Co-author), Christian Brandt (Co-author) & Tobias Neher (Co-author)
24. Aug 2021

A digit-based behavioral and electrophysiological test battery for assessing different speech processing abilities

Pushkar Deshpande (Author), Christian Brandt (Co-author), Stefan Debener (Co-author) & Tobias Neher (Co-author)
14. Jun 2021 → 9. Jul 2021

Do school-age children with a history of recurrent otitis media show binaural speech-in-noise processing deficits?

Shno Koiek (Speaker), Jens Bo Nielsen (Co-author), Harvey Dillon (Co-author), Christian Brandt (Co-author) & Tobias Neher (Co-author)
20. May 2021

Characterizing the speech-in-noise abilities of school-age children with a history of middle-ear diseases

Shno Koiek (Speaker), Jens Bo Nielsen (Other), Christian Brandt (Other), Jesper Hvass Schmidt (Other) & Tobias Neher (Other)
21. Aug 2019 → 23. Aug 2019

Characterizing the binaural hearing abilities of school-age children with a history of middle-ear diseases

Shno Koiek (Speaker), Jens Bo Nielsen (Other), Christian Brandt (Other), Jesper Hvass Schmidt (Other) & Tobias Neher (Other)
9. Jun 2019 → 12. Jun 2019

Automatisk 2 Alternative Forced Choice Audiometri - Et alternativ til traditionel audiometri?

Christian Brandt (Speaker)
17. Apr 2009 → 18. Apr 2009

Press/Media

Global marketing manager til Spring Production

Christian Brandt
12/08/2021
1 Media contribution

Her er de mulige konsekvenser i sag om svensk forbrugslånsbank

Christian Brandt
25/04/2024
1 Media contribution

Jonathan Kvium: Egentlig drikker jeg ikke rigtigt, men stemningen derinde er bare virkelig god

Christian Brandt
02/02/2024
1 Media contribution

Magasinet Forsyning Kemisk kortlægning første skridt mod en effektiv høst af fosfor

Christian Brandt
10/05/2021
1 Media contribution

Navnenyt uge 32

Christian Brandt
10/08/2021
1 Media contribution

Nyheder fra Danmark i kort form

Christian Brandt
13/10/2022
1 Media contribution

Research in frog hearing: Research in frog and human hearing

Christian Brandt

08/01/2009

1 Media contribution

Svindel med NemKonto: Minister kræver flere undersøgelser

Christian Brandt

23/04/2021

1 Media contribution

Formel pædagogisk uddannelse

2018Public communication course, engineerthefuture.dk

2016Activating education and active learning with Flipped Learning, University of Southern Denmark

2017Research based teaching, University of Southern Denmark

2004Biology experiments – communicating biology, University of Southern Denmark

1997Diving Instructor course, CMAS.

Uddannelsesadministrative opgaver

Since 2016 I have been heavily involved in the creation of a new bachelor program in Audiology. As a part of that I was also part of the process of moving the whole audiology program from the faculty of humanities to the faculty of health sciences.

I'm currently part of the process of creating a new updated master program in audiology.

I have been responsible for the content of the following courses: Introduction to Audiology, Audiological Measurements I, Preaudiologic Practice, Audiological Measurements II, Audiological Measurements, Psychoacustics, Advanced Audiological Measurements.

Since 2017 I have been an elected member of the study board for Audiology.

Erfaring med undervisning, vejledning og eksamen

Teaching

2019 Audiological Measurements I and Hearing Aid Treatment I, University of Southern Denmark

2019 Psychoacustics, University of Southern Denmark

2018 Preaudiologic Practice, University of Southern Denmark

2018 Introduction to Audiology, University of Southern Denmark

2018 Advanced Audiological Measurements, University of Southern Denmark

2018 Audiological Measurements I and Hearing Aid Treatment I, University of Southern Denmark

2018 Audiological Measurements II, University of Southern Denmark2018 Psychoacustics, University of Southern Denmark

2017 Preaudiologic Practice, University of Southern Denmark

2017 Introduction to Audiology, University of Southern Denmark

2017 Audiological Measurements, University of Southern Denmark

2017 Psychoacustics, University of Southern Denmark2016 Preaudiologic Practice, University of Southern Denmark

2016 Audiological Measurements, University of Southern Denmark

2016 Advanced Audiological Measurements, University of Southern Denmark

2015 Lecture on Learning & Memory in Cognitive Neuroscience. (19.10.2015), Newcastle university.

2013 Lecture on Attention in Cognitive Neuroscience. (11.11.2013), Newcastle university.

2012 Lecture on Learning & Memory in Cognitive Neuroscience. (15.10.2012), Newcastle university.

2009 Lecture on The auditory brainstem response in air as part of summer course in Acoustic Communication. (20.08.2009), University of Southern Denmark

2009 Teaching assistant in Physiology lab exercises, University of Southern Denmark

2009 Teaching assistant in Audiological measurement methods, University of Southern Denmark

2008 Teaching assistant in Physiology lab exercises, University of Southern Denmark

2007 Teaching assistant in physics 501 (biophysics), University of Southern Denmark

2007 Teacher in Animal behaviour A, University of Southern Denmark

2007 Teaching assistant in Physiology lab exercises, University of Southern Denmark

2007 Teaching assistant in Audiological measurement methods, University of Southern Denmark

2006 Teacher in Audiological measurement methods, University of Southern Denmark

2006 Teaching assistant in Physics 501 (biophysics), University of Southern Denmark

2006 Teacher of Natural Science, University College Lillebælt

Supervision

I have been or currently are the main supervisor on 16 master projects and 5 bachelor projects. I'm currently the co-supervisor on one PhD project.

Metoder, materialer og redskaber

I use active learning as an integral part of my teaching. Either by combining traditional lectures with exercises where the students use the newly learned material on real world examples. Or by using video lectures and combining them with group discussions and an exercise in class.

Uddannelsesudvikling og universitetspædagogisk forskning.

In the development of my educational profile I have primarily focused on two projects. 1. Improving the quality of master theses in audiology. 2. Implementing flipped learning in my teaching.

As part of the first project I wrote a guide for how to write a master thesis based on material from faculty of Science. And was a part of the group that worked on implementing group supervision for master students. As part of the second project I converted the course Psychoacoustics from a traditional teaching style to flipped learning and investigating costs and benefits in this process.

Papers

2017C. Brandt, The use of flipped learning to teach Psychoacoustics, Proceedings fra TAL 2017, ISBN 978-87-93669-20-8, page 26-32

Poster

2017Teaching psychoacoustics in the flipped classroom. SDUUP poster session, University of Southern Denmark

Invited talks

2018Video i undervisningen, Study leader meeting, University of Southern Denmark.

2017Cost-benefit analysis of video lectures, Trends in teaching, University of Southern Denmark