Research outputs:

**A mechanoelectrical mechanism for detection of sound envelopes in the hearing organ**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Investigating the effect of synaptopathy on envelope following responses using a model of the auditory nerve**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Objective measures for detecting the auditory brainstem response: comparisons of specificity, sensitivity and detection time**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Toward EEG-Assisted Hearing Aids: Objective Threshold Estimation Based on Ear-EEG in Subjects With Sensorineural Hearing Loss**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Can a static nonlinearity account for the dynamics of otoacoustic emission suppression?**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

**Human cochlear tuning estimates from stimulus-frequency otoacoustic emissions**
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

**Nonlinear time-domain modeling of balanced-armature receivers**
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

**Temporal suppression of the click-evoked otoacoustic emission level-curve**
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

**Modeling human auditory evoked brainstem responses based on nonlinear cochlear processing**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

**Temporal adaptation of the click-evoked otoacoustic emission level-curve reveals dynamic properties of human cochlear processing**
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2010 › Research
Comparison of cochlear delay estimates using otoacoustic emissions and auditory brainstem responses
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Temporal Adaptation in Click-Evoked Otoacoustic Emissions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2009 › Research

Auditory brainstem responses elicited by embedded narrowband chirps
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Auditory Signal Processing in Hearing Impaired Listeners: 1st International Symposium on Auditory and Audiological Research
Research output: Book/Report › Book – Annual report year: 2008 › Research › peer-review

Individual cochlear delays estimated with otoacoustic emissions and auditory brainstem measurements
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Temporal suppression and augmentation of click-evoked otoacoustic emissions
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Temporal suppression and augmentation of click-evoked otoacoustic emissions
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2008 › Research › peer-review

Temporal suppression of long-latency click-evoked otoacoustic emissions
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Constrained ICA for the Analysis of High Stimulus Rate Auditory Evoked Potentials
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Temporal suppression of long-latency click-evoked otoacoustic emissions
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Individual cochlear delays measured with tone-burst evoked otoacoustic emissions
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research
Individual cochlear delays measured with tone-burst-evoked otoacoustic emissions: A new method to resolve the OAE onset ambiguity in the time domain
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research

A comparison of two methods for obtaining derived, noise-evoked otoacoustic emissions
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

A comparison of various nonlinear models of cochlear compression
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Dynamic nonlinear cochlear model predictions of click-evoked otoacoustic emission suppression
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Using the short-term correlation coefficient to compare transient- and derived, noise-evoked otoacoustic emission temporal waveforms
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Prediction of OAE suppression with a dynamic nonlinear model
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

The compression curves for different models of cochlear nonlinearities
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2004 › Research

The compression curves of different models of cochlear nonlinearities
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2004 › Research

Models for compressive nonlinearities in the cochlea
Research output: Book/Report › Report – Annual report year: 2003 › Research

Optimal nonlinear filter to remove random impulses from gaussian noise
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research

Projects:

Deep learning methods for otoscopy and wideband tympanometry for the diagnosis of otitis media with effusion and acute otitis media
Sundgaard, J. V., Paulsen, R. R., Christensen, A. N. & Harte, J.
01/05/2019 → 30/04/2022
Project: PhD
Effect of room acoustics and head movements on aided and unaided sound-field auditory steady state response (ASSR) measurements
Zapata Rodriguez, V., Jeong, C., Brunskog, J. & Harte, J.
Industrial PhD
01/07/2016 → 30/10/2019
Project: PhD

Characterizing cochlear hearing impairment using electrophysical methods
Encina-Llamas, G., Epp, B., Dau, T., Harte, J., Marozeau, J., Bruce, I. C. & Schaette, R.
Samfinansierede - Virksomhed
15/02/2014 → 06/12/2017
Project: PhD

Nonlinear balanced armature receivers
Jensen, J., Agerkvist, F. T., Harte, J., Brunskog, J., Bard, D. & Klippel, W.
ErhvervsPhD-ordningen VTU
01/07/2010 → 15/11/2014
Project: PhD

Signal Processing in the human auditory system: Auditory-evoked Brain Responses as a Correlate of Hearing Function
Pigasse, G., Dau, T., Harte, J., Poulsen, T., Lutman, M. E. & Stenfelt, S.
Eksternt finansieret virksomhed
01/10/2004 → 23/12/2008
Project: PhD

Characterising temporal nonlinear processes in the human cochlea using otoacoustic emissions
1/3 DTU-stip, 2/3 FUR/andet
01/12/2006 → 01/09/2010
Project: PhD

Modelling human auditory-evoked brain responses to complex sounds
Technical University of Denmark
01/03/2009 → 25/01/2013
Project: PhD