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
Individual cochlear delay 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
Project: PhD

Effect of room acoustics and head movements on aided and unaided sound-field auditory steady state response (ASSR) measurements
Project: PhD

Characterizing cochlear hearing impairment using electrophysical methods
Project: PhD

Nonlinear balanced armature receivers
Project: PhD

Signal Processing in the human auditory system: Auditory-evoked Brain Responses as a Correlate of Hearing Function
Project: PhD

Characterising temporal nonlinear processes in the human cochlea using otoacoustic emissions
Project: PhD

Modelling human auditory-evoked brain responses to complex sounds
Project: PhD