

Kauê Werner

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EDUCATION:

Federal University of Santa Catarina (UFSC) | Florianópolis - Brazil

- [Graduation in Mechanical Engineering](#) (2007 - 2012)
 - [Master in Vibration and Acoustics](#) (2013 - 2015)
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WORK EXPERIENCE:

[Laboratory of Vibration and Acoustics](#) | UFSC - Brazil:

- Research assistant: Experimental modal analysis (2009)
- Research assistant: Hybrid vibro-acoustic numerical analysis (2011 -2012)
- Teaching assistant: Vibration theory and experiments (2012 - 2013)
- Master research topic: Psychoacoustics/subjective acoustics (2013 - 2014)
- Research engineer: Cochlear implant project, development and implementation of objective models for auditory perception evaluation (2015 - 2016)

[Audio Information Processing](#) | Technical University of Munich - Germany

- Research assistant (2016 - 2018): Development and validation of human auditory system models
- Teaching assistant and Bachelor/Master student tutor (2017 - 2018):
 - ◆ Technical Acoustics (theory + experiments);
 - ◆ Signal Processing for Audio Technology (DSP MATLAB assistant);
 - ◆ Advanced Seminar on Audio Information Processing;

[Hexagon - Free Field Technologies](#) | Mont-Saint-Guibert - Belgium

- Application engineer (2018 - 2020):
 - ◆ Validation, quality assurance and improvement of the Actran Software Suite for acoustics, vibro- and aero-acoustics;
 - ◆ Support and customer training;
 - ◆ Acoustic & Vibration consulting projects for different industries
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SKILLS:

Spoken languages: English (C1), German (B1), Portuguese (native)

Programming languages: Python, MATLAB, SuperCollider, C++, C#, JavaScript;

Measurement equipments: data acquisition systems (Brüel & Kjær, Siemens/LMS, HEAD Acoustics, NI/LabView), transducers and calibrators (microphones, shakers, accelerometers, loudspeakers), oscilloscope, sound level meters, head & torso

Software: Actran Suite, Ableton Live, Unity, Pd, COMSOL Multiphysics, SolidWorks

PUBLICATIONS:

Werner, K.; Seeber, B.U.: "[MODELING THE BIMODAL LATENCY BEHAVIOR IN ELECTRICALLY STIMULATED AUDITORY NERVE FIBERS](#)", Bernstein Conference, 2018, T72

Werner, K., Chiea, R., Cordioli, J. A., ; Paul, S. ; "[ANALYSIS OF COCHLEAR IMPLANT VOCODER SIMULATION INCLUDING THE CURRENT SPREAD EFFECT IN THE PRESENCE OF BACKGROUND NOISE](#)," in *Fortschritte der Akustik - DAGA '16*, edited by M. Vorländer, and J. Fels (Dt. Ges. f. Akustik, Aachen).

Werner, K., Vergara, E. F., Paul, S.; Cordioli, J. A.; [TIMBRE ASPECTS OF RIDE CYMBALS: SOUND COLORATION ANALYSIS USING PSYCHOACOUSTIC MODELS AND SUBJECTIVE EVALUATION](#). *The Journal of the Acoustical Society of America*, 138(3), p1936-1936, 2015.

Werner, K. ; Cordioli, J. A. ; [ACOUSTIC RADIATION BY MEANS OF AN ACOUSTIC DYNAMIC STIFFNESS MATRIX IN SPHERICAL COORDINATES](#). In: *Internoise*, Innsbruck, 2013.