

# 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 and numerical analysis (2009 -2012)
- Teaching assistant: Vibration theory and experiments (2012 - 2013)
- Master research topic: Psychoacoustics/subjective acoustics (2013 - 2014)
- Research engineer: Cochlear implant signal processing (2015 - 2016)

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

- Research assistant (2016 - 2018): human auditory system models
- Teaching assistant (2017 - 2018): Technical Acoustics and Audio Technology

[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

[Absolute Audio Labs](#) | Rotterdam/Hilversum - Netherlands

- Audio software developer (2021 - 2024): DSP development, validation and tuning of audio SoC firmware applicable to earbuds and hearing aids

[~/biodiversica](#) | Brazil

- Software developer (2025 - ): development, support, and dissemination of free software and open source solutions for the collection, monitoring, management and analysis of bioacoustic data from Brazil's different biomes
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## **SKILLS:**

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

**Programming languages:** Embedded C, Python, SuperCollider, Assembly, MATLAB, C++/C#

**Measurement equipments:** data acquisition systems, transducers and calibrators, oscilloscope, sound level meters, head & torso

**Software:** VS Code, Vim, Qualcomm MDE, Actran Suite, Unity, LaTeX tools, Inkscape

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## **PUBLICATIONS:**

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

Werner, K.; Leibold, C.; Seeber, B.U.: "[INDIVIDUAL FITTING AND PREDICTION WITH A PHENOMENOLOGICAL AUDITORY NERVE FIBER MODEL FOR CI USERS](#)". Conf. on Implantable Auditory Prostheses, CIAP, 2017, p. 92, M11b

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.