

CURRICULUM VITAE

CONTACT INFORMATION	Address: Gorechtkade 94B 9713 CG, Groningen, The Netherlands Nationality: Spanish Date of birth: 09/11/1984	Phone: +31 633316550 E-mail: joselopezsantacruz@gmail.com LinkedIn
EXPERIENCE	<p><b>PhD researcher</b> at <b>UMCG</b>, The Netherlands Oct 2017 to Jul 2022</p> <p>Marie Skłodowska-Curie Actions fellowship PhD: <i>Personalized hearing aid amplification to ameliorate tinnitus</i>, ESIT project.</p> <ul style="list-style-type: none"><li>• Topics/tasks: <i>Tinnitus, hearing loss, hearing aids, clinical trials, psychoacoustic experiments.</i></li><li>• Supervisors: Pr. Pim van Dijk and Dr. Emile de Kleine</li></ul> <p><b>MIR Researcher</b> at University of Málaga, Spain Feb 2015 to Oct 2017</p> <p>Music Information Retrieval at the Department of Communications Engineering of the ETSIT.</p> <ul style="list-style-type: none"><li>• Topics: <i>Processing of the singing voice, pitch shifting, EEG analysis on music perception.</i></li><li>• Supervisors: Pr. Lorenzo J. Tardón and Pr. Isabel Barbancho</li></ul> <p><b>Research collaboration</b> at University of Aarhus, Denmark Feb to Apr 2017</p> <p>Visitor researcher, Center For Music In The Brain.</p> <ul style="list-style-type: none"><li>• Topics: <i>Musical and audio feature extraction, music perception in cochlear implant users and musically trained listeners, EEG/MEG analysis.</i></li><li>• Supervisor: Pr. Elvira Brattico</li></ul>	
ADDITIONAL EXPERIENCE	<p>Supervisor of Master's student Mar 2021 to Jun 2022 Project: <i>Auditory Brainstem Response in Tinnitus and Hyperacusis</i> Department of Otorhinolaryngology, UMCG</p> <p>Lecturer June 2017 Session - <i>Music Acoustics: Sound Synthesis</i> Engineering Acoustics MSc, University of Málaga</p> <p>Co-teacher Workshop - <i>URobot: learn to program your robot</i> October 2015 Workshop - <i>FECYT Summer Science Campus 2015</i> Summer 2015 Division of Mechatronics, University of Málaga</p>	
TECHNICAL SKILLS AND COMPETENCES	<p><b>Programming languages:</b> R, Matlab, Python, C++, SQL, HTML, CSS.</p> <p><b>Technical skills:</b> Signal processing, acoustics, statistical analysis, machine learning, data visualization.</p> <p><b>Soft skills:</b> Public speaking, written and oral communication, scientific writing, problem-solving, critical thinking, teamwork.</p>	

EDUCATION	B.Eng. + M.Sc. (pre-Bologna degree) in Telecommunications Engineering at <b>University of Málaga</b> , Spain	
	<i>Cum Laude</i> Master's thesis: <i>Single Carrier Frequency Division Multiple Access (SC-FDMA) transmitter and receiver for LTE systems, using VHDL for FPGA implementation.</i>	Apr 2014
RELEVANT COURSES	Research Data Management awareness workshop	Feb 2021
	BCN Advanced (non)linear regression techniques in R	Jun to Jul 2020
	R Statistics Training Workshop Advanced	Oct 2019
	Ethics of Research and Scientific Integrity for Researchers	Feb to Apr 2019
	Introduction to Good Clinical Practice (GCP)	Oct 2018
	BCN Management Competences	Dec 2017, Oct 2018
LANGUAGES	<ul style="list-style-type: none"> <li>• English - Full professional proficiency</li> <li>• Dutch - A2/B1 level</li> <li>• Spanish - Native</li> </ul>	
SCIENTIFIC SERVICE	<ul style="list-style-type: none"> <li>• Reviewer, <i>Progress in Brain Research</i></li> <li>• Local Committee, <i>FMA2017</i></li> <li>• Reviewer, <i>DAFX2017</i></li> <li>• Local Committee, <i>ISMIR2015</i></li> </ul>	Apr 2020 Jun 2017 May 2017 Oct 2015
INTERNSHIPS	Clinical Internship in Salamanca, Spain Visit to <i>Hospital Universitario de Salamanca</i> as part of the PhD program. Visit to the <i>Instituto de Neurociencias de Castilla y León</i> . Industrial internship in Erlangen, Germany Visit to the hearing aids' company <i>Sivantos</i> as part of the PhD program.	Jan 2017    Feb 2018
GRANTS	Research grant of the University of Málaga International fellowship at the <i>Center for Music in the Brain</i> , Aarhus University, Denmark.	Feb 2017
HOBBIES AND INTERESTS	<ul style="list-style-type: none"> <li>• Singing, music production, composition, guitar playing</li> <li>• Podcast production and co-hosting</li> <li>• Boulderling/Climbing</li> <li>• Open mic/stand-up comedy</li> </ul>	
REFERENCES	<b>Pr. dr. dr. Pim van Dijk</b> Professor, Clinical Physicist-Audiologist Department of Otorrinolaringology UMCG Hanzeplein 1, 9700RB Groningen The Netherlands  <b>Dr. ir. Emile de Kleine</b> Clinical Physicist-Audiologist Department of Otorrinolaringology UMCG Hanzeplein 1, 9700RB Groningen The Netherlands	
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1. Haumann, N.T., Lumaca, M., Kliuchko, M., **Santacruz, J.L.**, Vuust, P. and Brattico, E., 2021. Extracting human cortical responses to sound onsets and acoustic feature changes in real music, and their relation to event rate. *Brain Research*, 1754, p.147248. <https://doi.org/10.1016/j.brainres.2020.147248>
2. **Santacruz, J. L.**, Arnold, A., Tuinstra J., Stewart R.E., van Dijk, P., 2021. Validation of a Dutch version of the Tinnitus Functional Index in a tertiary referral tinnitus clinic. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2021.e07733>
3. **Santacruz, J. L.**, de Kleine, E., van Dijk, P., 2021. Investigating the variability of Minimum Masking Levels for tinnitus subtyping. *Progress in brain research*. <https://doi.org/10.1016/bs.pbr.2021.04.011>
4. Biswas, R., Schiller, A.,... **Santacruz, J. L.**, Schoisswohl, S., 2021. Doctoral Studies as part of an Innovative Training Network (ITN): Early Stage Researcher (ESR) experiences. *Open Research Europe*, 1(34), p.34. <https://doi.org/10.12688/openreseurope.13094.2>
5. Simoes, J.P., Daoud, E.,...**Santacruz, J.L.**, Joergensen, M., 2021. Multidisciplinary Tinnitus Research: Challenges and Future Directions from the Perspective of Early Stage Researchers. *Frontiers in Aging Neuroscience*, 13, p.179. <https://doi.org/10.3389/fnagi.2021.647285>
6. Genitsaridi, E., Partyka, M.,... **Santacruz, J.L.**, Schoisswohl, S., Riha, C. and Lourenco, M., 2019. Standardised profiling for tinnitus research: The European School for Interdisciplinary Tinnitus Research Screening Questionnaire (ESIT-SQ). *Hearing research*, 377, pp.353-359. <https://doi.org/10.1016/j.heares.2019.02.017>
7. **Jose L. Santacruz**, Lorenzo Tardón, Isabel Barbancho, Ana M Barbancho. "Spectral Envelope Transformation in Singing Voice for Advanced Pitch Shifting." *Applied Acoustics MDPI*, 6(11), 368, 2016.
8. **Jose L. Santacruz**, Lorenzo Tardón, Isabel Barbancho, Ana M Barbancho. "VOICE2TUBA: transforming singing voice into a musical instrument." *Multimedia Tools and Applications, Springer*, 76(7):9855–9875, 2017.

#### CONFERENCES

1. "Subtyping Tinnitus by the Relation between Minimum Masking Levels and Hearing Thresholds", **Santacruz, J. L.**, de Kleine, E., van Dijk, P., poster presentation; ARO 2021.
2. "Minimum masking levels and hearing thresholds in patients with tinnitus", **Santacruz, J. L.**, de Kleine, E., van Dijk, P., poster presentation; BTA 2018.
3. "Tinnitus pitch matching by amplitude modulated sounds", **Santacruz, J. L.**, de Kleine, E., van Dijk, P., poster presentation; TRI 2018.
4. "Source separation by score synthesis in Spanish folk music", Sergio P. Paqué, Marcelo Caetano, **Jose L. Santacruz**, Lorenzo Tardón and Isabel Barbancho, oral presentation. FMA2017.
5. "Modeling spectral changes in singing voice for pitch modification", Isabel Barbancho, **Jose L. Santacruz**, Lorenzo Tardón and Ana M. Barbancho, latebreaking demo; ISMIR2016.