César D. Salvador, Ph.D.

Signal Processing • Acoustics • Immersive Technologies

Calle Francia 309, Dpto. 201
Miraflores, Lima 15074, Perú
✆ +51-932-442-398
✉ salvador@perception3d.com
⌸ cesardsalvador.github.io
in linkedin.com/in/cesardsalvador
orcid.org/0000-0002-3516-3788
RENACYT Nivel IV, P0125976
RENTOCA REN-TC-035191-24

Given Name: César Daniel
Family Name: Salvador Castañeda
Date of birth: 9 March 1978
Nationality: Peruvian

Resume

César Salvador is a professor, researcher, and founder specializing in signal processing, spatial acoustics, and immersive technologies. He holds M.Sc. and Ph.D. degrees in information sciences from Tohoku University, Japan, where he was awarded the prestigious MEXT scholarship. His research has been published in leading journals such as IEEE/ACM TASLP and JASA, achieving an h-index of 8 with over 170 citations. His work has been funded by the Japan Society for the Promotion of Science (JSPS) and the Ministry of Culture of Peru. He is a member of IEEE, AES and AMS. César has held academic and industry positions worldwide, including as an Assistant Professor at the Research Institute of Electrical Communication (RIEC), Tohoku University in Japan, and as Chief Audio Scientist at Silicon Integrated in China. Currently, he is a Professor at the Peruvian University of Applied Sciences (UPC), where he teaches signal processing and mentors thesis projects. As the founder of Perception Research, César leads pioneering efforts in immersive soundscape preservation, integrating 360 video, ambisonic audio, and large multimodal models. Fluent in Spanish, English, Japanese, and French, César is passionate about transdisciplinary and cross-functional collaboration. He seeks to contribute his expertise to world-class universities and leading technology firms.

Education

2016 **Ph.D., Information Sciences**, *Tohoku University*, Sendai, Japan
- Doctoral Dissertation: *Binaural Synthesis Based on Spherical Acoustics*
- Tohoku University Repository: http://hdl.handle.net/10097/00121125

2013 **M.Sc., Information Sciences**, *Tohoku University*, Sendai, Japan
- Master Thesis: *Binaural Synthesis Based on the Spherical Harmonic Analysis with Compact Microphone Arrays*
- Tohoku University Repository: http://hdl.handle.net/10097/56638

2008 **Training**, *Indian Institute of Remote Sensing*, Dehradun, India

2005 **B.Sc., Electrical Engineering**, *Pontifical Catholic University of Peru*, Lima, Peru

Professional Experience

2023–Present **Full-Time Professor**, *Peruvian University of Applied Sciences (UPC), Lima, Peru*
- Affiliated with the Research Department and the Faculty of Engineering.
- Courses in the electronic engineering school: signals and systems, digital signal processing, electronic project 1, and electronic project 2.
- Course taught in English in the NCUK program: computer science.

2019–Present	**Founder**, *Perception Research, Lima, Peru*

2019–Present **Founder**, *Perception Research, Lima, Peru*
- Acoustic research for immersive technologies.
- Audiovisual preservation projects with the Ministry of Culture of Peru.
- Innovation training programs for the National University of Music (UNM).

2025–Present **Part-Time Lecturer**, *Universidad San Ignacio de Loyola (USIL), Lima, Peru*
- Courses in the music program: musical project I and II.

2023–2025 **Full-Time Lecturer**, *Peruvian University of Applied Sciences (UPC), Lima, Peru*
- Courses in the electronic engineering program: signals and systems, digital signal processing, electronic project 1, and electronic project 2.
- Courses taught in English in the NCUK program: computer science and physics.

2022–2023 **Part-Time Lecturer**, *Peruvian University of Applied Sciences (UPC), Lima, Peru*
- Course taught in English in the NCUK program: physics.
- Course in the electronic engineering program: digital signal processing.

2019–2021 **Chief Audio Scientist**, *Silicon Integrated Co., Ltd., Wuhan, Hubei, China*
- The audio algorithm development team of Silicon Integrated (SI) in China and Peru creates smart 3D audio solutions for mobile platforms considering immersive user experiences through multisensory interfaces.

2017–2019 **Assistant Professor (Specially Appointed for Research)**, *Advanced Acoustic Information Systems Laboratory, RIEC, Tohoku University*
- Principal Investigator of the project "Perceptual Constancy in Spatial Hearing," supported by a Grant-in-Aid of the Japan Society for the Promotion of Science (JSPS), under Grant JP17K12708 (2017–2018).
  Report available at: https://kaken.nii.ac.jp/grant/KAKENHI-PROJECT-17K12708.

2016–2017 **Postdoctoral Researcher**, *Advanced Acoustic Information Systems Laboratory, RIEC, Tohoku University*
- Physically-motivated spatial audio recording, edition, and binaural reproduction.

2008–2010 **Research Professor**, *Faculty of Communication Sciences, University of San Martin de Porres*, Lima, Peru
- Principal Investigator of the project "Auralization: Towards the authentic representation of sound in space."

2006–2007 **Academic Coordinator**, *National Institute for Research and Training in Telecommunications (INICTEL)*, Lima, Peru
- Planning and coordination of workshops in robotics. The workshops were oriented to students of the Army Technical School of Peru and were lectured by INICTEL's academic staff.

2006–2010 **Teaching Assistant**, *Pontifical Catholic University of Peru*, Lima, Peru
- Courses in the department of engineering: communication theory, digital signal processing, microwaves, antenna engineering, Computer architecture, and Calculus.

Funding

2022–2023 **Grant for New Audiovisual Media Projects**, *Ministry of Culture of Peru*, to continue preserving the soundscapes of historical spaces of Peru through our project "Immersive Memory" with the team of Perception Research, Acta 189-2022-DAFO.
https://www.perception3d.com/soundscape
https://estimuloseconomicos.cultura.gob.pe/sites/default/files/concursos/archivos/2022-CNM-FalloFinal.pdf

2017–2018 **Grant-in-Aid for Young Scientists (B)**, *Japan Society for the Promotion of Science (JSPS)*, for the project "Perceptual Constancy in Spatial Hearing", JSPS Grant JP17K12708
Report available at: https://kaken.nii.ac.jp/grant/KAKENHI-PROJECT-17K12708

2018   **Travel Grant**, *European Project Center (EPC), and Institute of Acoustics and Speech Communications (IAS), TU Dresden*, to enable participation in the workshop on the MSC Individual Fellowships Program, with the project "High-definition Acoustic Reconstruction for Multisensory Environments", Dresden, Germany, June 2018

2016   **Travel Grant**, *Murata Science Foundation*, to present the paper "Numerical evaluation of binaural synthesis from rigid spherical microphone array recordings" at the Audio Engineering Society International Conference on Headphone Technology, held in Aalborg, Denmark, from Aug. 24th to Aug. 26th, 2016

Awards and Scholarships

2016   **Best Paper Award**, *11th International Conference on Intelligent Information Hiding and Multimedia Signal Processing*, for co-authoring the paper entitled "A compact representation of the head-related transfer function inspired by the wavelet transform on the sphere"

2011–2016   **Scholarship**, *Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT or Monbukagakusho)*, to pursue studies in Graduate School of Information Sciences (GSIS), Tohoku University, Sendai, Japan

2008   **Scholarship**, *Indian Technical and Economic Cooperation (ITEC)* , to attend a two-months training course on Remote Sensing and Geographical Information Systems at the Indian Institute of Remote Sensing (IIRS), Dehradun, India

2007   **Honorable Mention**, *UNESCO and Daimler Mondialogo Engineering Award*, for co-authoring a project focused on improving the diagnosis and treatment of tuberculosis and cutaneous Leishmaniasis in Peru using medical imaging techniques, in collaboration with University of Rochester and Pontifical Catholic University of Peru

Patents

1. Y. Suzuki, S. Sakamoto, J. Treviño, <u>C. D. Salvador</u>, and T. Kudo, "Method, program, and device for stereophonic sound reproduction," *J-PlatPat*, Japanese Patent Number JP.6556682.B., August 2019.
Available at J-PlatPat

Journal Articles

9. A Urviola, S. Sakamoto, and <u>C. D. Salvador</u>, "Ear centering for accurate synthesis of near-field head-related transfer functions," *Appl. Sci.*, vol. 12, no. 16, 2022.
Available at https://www.mdpi.com/2076-3417/12/16/8290

8. J. Shi, <u>C. D. Salvador</u>, J. Treviño, S. Sakamoto, and Y. Suzuki, "Spherical harmonic representation of rectangular domain sound fields," *Acoust. Sci. Technol.*, vol. 41, no. 1, pp. 451–453, Jan. 2020.
Available at https://doi.org/10.1250/ast.41.451

7. S. Hu, J. Treviño, <u>C. D. Salvador</u>, S. Sakamoto, and Y. Suzuki, "Modeling head-related transfer functions with spherical wavelets," *Appl. Acoust.*, vol. 146, pp. 81–88, Mar. 2019.
Available at https://doi.org/10.1016/j.apacoust.2018.10.026

6. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Boundary matching filters for spherical microphone and loudspeaker arrays," *IEEE/ACM Trans. Audio, Speech, Language Process.*, vol. 26, no. 3, 461–474, March 2018.
Available at https://doi.org/10.1109/TASLP.2017.2778562

5. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Enhancement of spatial sound recordings by adding virtual microphones to spherical microphone arrays," *J.*

Inf. Hiding and Multimedia. Signal Process., vol. 8, no. 6, pp. 1392–1404, Nov. 2017.
Available at http://bit.kuas.edu.tw/~jihmsp/2017/vol8/JIH-MSP-2017-06-020.pdf

4. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Design theory for binaural synthesis: Combining microphone array recordings and head-related transfer function datasets," *Acoust. Sci. Technol.*, vol. 38, no. 2, pp. 51–62, Mar. 2017.
Available at https://doi.org/10.1250/ast.38.51

3. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Spatial accuracy of binaural synthesis from rigid spherical microphone array recordings," *Acoust. Sci. Technol.*, vol. 38, no. 1, pp. 23–30, Jan. 2017.
Available at https://doi.org/10.1250/ast.38.23

2. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Distance-varying filters to synthesize head-related transfer functions in the horizontal plane from circular boundary values," *Acoust. Sci. Technol.*, vol. 38, no. 1, pp. 1–13, Jan. 2017.
Available at https://doi.org/10.1250/ast.38.1

1. S. Hu, J. Treviño, <u>C. D. Salvador</u>, S. Sakamoto, J. Li, and Y. Suzuki, "A local representation of the head-related transfer function," *J. Acoust. Soc. Am.*, vol. 140, no. 3, pp. EL285–EL290, Sept. 2016.
Available at https://doi.org/10.1121/1.4962805

Conference Papers

38. <u>C. D. Salvador</u>, J. Treviño, and S. Sakamoto, "Spatial acoustics library for MATLAB (SALM): A computational toolkit for spatial audio processing," *Proc. Int. Conf. Immersive and 3D Audio (I3DA)*, Bologna, Italy, September 2025.
Available at https://doi.org/10.1109/I3DA65421.2025.11202099

37. L. Villacorta, F. Chunga, H. Aquiño, and <u>C. D. Salvador</u>, "Enhancing CanSat Mission Safety: An Autogyro-Based Landing Solution," *Proceedings of the 10th Brazilian Technology Symposium (BTSym'24)*, vol 443, pp. 107–115, June 2025.
Available at https://link.springer.com/chapter/10.1007/978-3-031-92651-8-12.

36. <u>C. D. Salvador</u>, A. Urviola and S. Sakamoto, "Ear centering in the spatial and transform domains for near-field head-related transfer functions," *Proc. 24th Int. Cong. Acoust. (ICA 2022)*, Gyeongju, South Korea, October 2022.
Available at https://cesardsalvador.github.io/doc/Salvador2022EarCenteringExtended.pdf

35. A. Campos, S. Sakamoto, and <u>C. D. Salvador</u>, "Directional early-to-late energy ratios to quantify intelligibility: A case study in a large auditorium," *Proc. Int. Conf. Immersive and 3D Audio (I3DA)*, Bologna, Italy, September 2021.
Available at https://doi.org/10.1109/I3DA48870.2021.9610935

34. A. Urviola, S. Sakamoto, and <u>C. D. Salvador</u>, "Ear centering for near-distance head-related transfer functions," *Proc. Int. Conf. Immersive and 3D Audio (I3DA)*, Bologna, Italy, September 2021.
Available at https://doi.org/10.1109/I3DA48870.2021.9610891

33. J. Alarcón, J. Solis, and <u>C. D. Salvador</u>, "Regularized spherical Fourier transform for room impulse response interpolation," *Proc. IEEE XXVII Int. Conf. Electronics, Electrical Engineering, and Computing (INTERCON)*, Lima, Peru, August 2021.
Available at https://doi.org/10.1109/INTERCON52678.2021.9532805

32. C. Peng, Y. Shi, B. Yan, L. Wu, Z. Chen, <u>C. D. Salvador</u> and D. Liu, "Power-based thermal limits for micro-speaker protection algorithms," in *148th Audio Eng. Soc.*

*Convention,*Vienna, Austria, June 2020.
Available at http://www.aes.org/e-lib/browse.cfm?elib=20832.

31. S. Sakamoto, F. Monasterolo, <u>C. D. Salvador</u>, Z. Cui, and Y. Suzuki, "Effects of target speech distance on auditory spatial attention in noisy environments," in *Proc. ICA 2019 and EAA Euroregio,*pp. 2177–2181, Aachen, Germany, Sept. 2019.
Available at http://pub.dega-akustik.de/ICA2019/data/articles/001087.pdf.

30. S. Sakamoto, <u>C. D. Salvador</u>, J. Treviño, and Y. Suzuki, "Binaural synthesis using a spherical microphone array based on the solution to an inverse problem," in *Proc. Inter-Noise*, pp. 735–738, Madrid, Spain, June 2019.

29. F. Monasterolo, S. Sakamoto, <u>C. D. Salvador</u>, Z. Cui, and Y. Suzuki, "The effect of target speech distance on spatial auditory attention under multi-talker environment," in *Proc. Spring Meeting Acoust. Soc. Jpn.*, pp. 735–738, Tokyo, Japan, March 2019.

28. <u>C. D. Salvador</u>, R. Teraoka, Y.-W. Liu, M. Sato, A. Kral, and S. Sakamoto, "Computational models of the auditory brain," in *6th Int. Symp. Brainware LSI*, Sendai, Japan, March 2019.

27. F. Monasterolo, S. Sakamoto, <u>C. D. Salvador</u>, Z. Cui, and Y. Suzuki, "The effect of target speech distance on reaction time under multi-talker environment," in *IEICE Tech. Rep.*, vol. 118, no. 313, pp. 83-–88, Nov. 2018.

26. J. Shi, <u>C. D. Salvador</u>, J. Treviño, S. Sakamoto, and Y. Suzuki, "Spherical harmonic representation of rectangular domain sound fields," in *Int. Symp. Universal Acoustical Communication*, Sendai, Japan, Oct. 2018.

25. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Enhancing binaural reconstruction from rigid circular microphone array recordings by using virtual microphones," in *Proc. Audio Eng. Soc. Int. Conf. Audio for Virtual and Augmented Reality*, Redmond, WA, USA, Aug. 2018.
Available at http://www.aes.org/e-lib/browse.cfm?elib=19669

24. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Dataset of near-distance head-related transfer functions calculated using the boundary element method," in *Proc. Audio Eng. Soc. Int. Conf. Spatial Reproduction —Aesthetics and Science—*, Tokyo, Japan, Aug. 2018.
Available at http://www.aes.org/e-lib/browse.cfm?elib=19602
Dataset available at http://www.ais.riec.tohoku.ac.jp/ salvador/download.html

23. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Enhancing the binaural synthesis from spherical microphone array recordings by using virtual microphones," in *IEICE Tech. Rep.*, vol. 117, no. 328, pp. 61–66, Auckland, New Zealand, Nov. 2017.

22. H. Sato, W. Arif, S. Sakamoto, <u>C. D. Salvador</u>, J. Treviño, Y. Suzuki, and A. Ito, "A compression method for spherical microphone array recordings using principal component analysis," in *Proc. RISP Int. Workshop on Nonlinear Circuits, Comm. and Signal Process.*, Guam, USA, March 2017.

21. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Validity of distance-varying filters for individual HRTFs on the horizontal plane," in *Proc. Spring Meeting Acoust. Soc. Jpn.*, Kawasaki, Japan, March 2017.

20. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "A model for spatial sound systems comprising sound field recording, spatial editing, and binaural reproduction," in *IEICE Tech. Rep.*, vol. 116, no. 449, pp. 61–65, Jan. 2017.

19. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Sound field interpolation in the spatial domain with a rigid spherical microphone array," presented at *5th Joint Meeting of the Acoustical Society of America and Acoustical Society of Japan*, Dec. 2016.

18. J. Treviño, <u>C. D. Salvador</u>, V. Braciulis, S. Sakamoto, Y. Suzuki, K. Yoshikawa, T. Yamasaki, and K. Kidokoro, "Sound source separation in complex environments using an array-of-arrays microphone system," in *Proc. 22nd Int. Cong. Acoust.*, Buenos Aires, Sept. 2016.
Available at http://www.ica2016.org.ar/ica2016proceedings/ica2016/ICA2016-0415.pdf

17. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Evaluation of white noise gain in a binaural system for microphone arrays," in *Proc. Autumn Meeting Acoust. Soc. Jpn.*, Toyama, Japan, pp. 401–404, Oct. 2016.

16. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Numerical evaluation of binaural synthesis from rigid spherical microphone array recordings," in *Proc. Audio Eng. Soc. Int. Conf. Headphone Technology*, Aalborg, Denmark, Aug. 2016.
Available at https://doi.org/10.17743/aesconf.2016.978-1-942220-09-1

15. H. Sato, W. Arif, S. Sakamoto, <u>C. D. Salvador</u>, J. Treviño, and Y. Suzuki, "Compression of spherical microphone array recordings using eigenvalue decomposition," in *Proc. RISP Int. Workshop on Nonlinear Circuits, Comm. and Signal Process.*, Guam, USA, March 2016.

14. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "A new signal processing procedure for stable distance manipulation of circular HRTFs on the horizontal plane," in *Proc. Spring Meeting Acoust. Soc. Jpn.*, Yokohama, Japan, pp. 561–564, March 2016.

13. J. Treviño, S. Hu, <u>C. D. Salvador</u>, S. Sakamoto, J. Li, and Y. Suzuki, "A compact representation of the head-related transfer function inspired by the wavelet transform on the sphere," in *Proc. Int. Conf. Intell. Inf. Hiding and Multimedia Signal Process. (IIH-MSP)*, Sept. 2015, pp. 372–375.
Available at https://doi.org/10.1109/IIH-MSP.2015.108

12. S. Sakamoto, A. Wicaksono, J. Treviño, <u>C. D. Salvador</u>, and Y. Suzuki, "Prediction method for compression of spherical microphone array signals using geometric information," in *Proc. Int. Conf. Intell. Inf. Hiding and Multimedia Signal Process. (IIH-MSP)*, Sept. 2015, pp. 376–379.
Available at https://doi.org/10.1109/IIH-MSP.2015.91

11. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Embedding distance information in binaural renderings of far field recordings," in *Proc. EAA Joint Symposium on Auralization and Ambisonics*, Berlin, Germany, April 2014, pp. 133–139.
Available at https://doi.org/10.14279/depositonce-22

10. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "Editing distance information in compact microphone array recordings for its binaural rendering," in *IEICE Tech. Rep.*, vol. 114, no. 3, pp. 13–18, Apr. 2014.

9. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, J. Li, Y. Yan, and Y. Suzuki, "Accuracy of head-related transfer functions synthesized with spherical microphone arrays," *Proc. Mtgs. Acoust.*, vol. 19, no. 1, Apr. 2013.
Available at https://doi.org/10.1121/1.4800833

8. <u>C. D. Salvador</u>, S. Sakamoto, J. Treviño, and Y. Suzuki, "A method to synthesize head-related transfer functions based on the spherical harmonic decomposition," in *Proc. Spring Meeting Acoust. Soc. Jpn.*, Tokyo, Japan, pp. 889–892, March 2013.

7. J. Treviño, T. Okamoto, <u>C. D. Salvador</u>, Y. Iwaya, Z. Cui, S. Sakamoto, and Y. Suzuki, "High-order ambisonics auditory displays for the scalable presentation of immersive 3D audio-visual contents," in *Proc. 23rd Int. Conf. Artificial Reality and Telexistence*, Tokyo, Japan, 2013.

6. <u>C. D. Salvador</u>, "Discrete driving functions for horizontal reproduction using wave field synthesis and higher order ambisonics," in *Proc. Audio Eng. Soc. 129 Convention*, San Francisco, USA, Nov. 2010.
Available at http://www.aes.org/e-lib/browse.cfm?elib=15666

5. <u>C. D. Salvador</u>, "Wave field synthesis using fractional order systems and fractional delays," in *Proc. 128th Audio Eng. Soc. Convention*, London, UK, May 2010.
Available at http://www.aes.org/e-lib/browse.cfm?elib=15419

4. <u>C. D. Salvador</u>, "A virtual acoustic environment as auditory display front-end for sonification," in *Proc. Interactive Sonification Workshop on Human Interaction with Auditory Displays*, Stockholm, Sweeden, April 2010, pp. 69–72.
Available at https://pub.uni-bielefeld.de/publication/2277223

3. <u>C. D. Salvador</u>, "A discretization of the wave field synthesis method for auralization of natural sounds," in *Proc. Int. Multi-Conference on Complexity, Informatics and Cybernetics*, Orlando, FL, USA, April 2010.
Available at
http://www.iiis.org/CDs2010/CD2010IMC/IMCIC_2010/index.asp?id=0&area=5

2. <u>C. D. Salvador</u>, "A channel vocoder using wavelet packets on a reconfigurable device," in *Proc. 124th Audio Eng. Soc. Convention*, Amsterdam, The Netherlands, May 2008.
Available at http://www.aes.org/e-lib/browse.cfm?elib=14546

1. <u>C. D. Salvador</u>, "Operadores integrales y sus aplicaciones al procesamiento digital de señales," in *Proc. XXIV Coloquio de la Sociedad Matemática Peruana*, Ica, Peru, June 2006.
Available at
cesardsalvador.github.io/doc/Salvador2006OperadoresIntegralesAplicacionDSP.pdf

Professional Affiliations

Member	**Institute of Electrical and Electronics Engineers (IEEE)**
Member	**IEEE Signal Processing Society**
Member	**IEEE Brain Community**
Member	**Audio Engineering Society (AES)**
Member	**Acoustical Society of Japan (ASJ)**
Member	**American Mathematical Society (AMS)**

Academic Service

Reviewer	**IEEE/ACM Transactions on Audio, Speech, and Language Processing**
Reviewer	**IEEE Access**
Reviewer	**The Journal of the Acoustical Society of America**
Reviewer	**MDPI Aerospace**
Reviewer	**MDPI Mathematics**

Reviewer	**Applied Acoustics**
Reviewer	**Acoustics Australia**
Reviewer	**Acoustical Science and Technology**
Reviewer	**Journal of Information Hiding and Multimedia Signal Processing**
Reviewer	**2019 AES Conference on Headphone Technology**
Reviewer	**2020 AES Conference on Audio for Virtual and Augmented Reality**
Reviewer	**2021, 2022 IEEE INTERCON**
Reviewer	**2021 IEEE EIRCON**

Administration

2019 **Organizer**, *Spatial Acoustics and Hearing Research Week (in Spanish)*, held at Universidad de San Martín de Porres and Centro Fundación Telefónica, from January 28 to February 3, 2019
Report available at: https://cesardsalvador.github.io/a3d/

2018 **Organizer**, *Exchange Meetings on Spatial Sound, Speech, and Haptic Signal Processing between the Technische Universität Dresden (TU Dresden) and Tohoku University*, held at the Institute of Acoustics and Speech Communication, TU Dresden, Germany, from January 30 to February 2, 2018

2018 **Organizer**, *Exchange Meeting on Spatial Sound and Speech Signal Processing between the Carl von Ossietzky University of Oldenburg and Tohoku University*, held at the Research Group on Auditory Signal Processing for Hearing Devices of the Carl von Ossietzky University of Oldenburg, Germany, on January 29, 2018

2017, 2018 **Collaborator**, *Open Campus of Tohoku University, and Open Campus of RIEC*, in charge of the exhibitions of the the Acoustic Information Systems Laboratory, held in July and October

Languages

- Spanish · Mother tongue
- English · Fluent
- Japanese · Advanced
- French · Advanced

References

Reference 1 **Prof. Emer. Yôiti Suzuki**
Research Institute of Electrical Communication
Tohoku University
Address: 2-1-1 Katahira, Aoba-ku, Sendai 980-8577, Japan
Telephone: +81 (22) 217-5461
E-mail: yoh@riec.tohoku.ac.jp

Reference 2 **Prof. Shuichi Sakamoto**
Head of Advanced Acoustic Information Systems Laboratory
Research Institute of Electrical Communication
Tohoku University
Address: 2-1-1 Katahira, Aoba-ku, Sendai 980-8577, Japan
Telephone: +81 (22) 217-5461
E-mail: saka@ais.riec.tohoku.ac.jp

Reference 3   **Dr. Jorge Treviño**
Yamaha Corporation
Artificial Intelligence Division
Hamamatsu, Japan
Telephone: +81 8031485120
E-mail: jorge.trevino@music.yamaha.com