Christian Lorenzi, Ph.D., HDR

DOB: 15 April 1968
Current position: Full Professor in Experimental Psychology (PREX1), Ecole normale supérieure, Université Paris Sciences & Lettres, Paris, France
Current affiliation:
(1) Département d'Etudes Cognitives, LabEx IEC (Institut d'Etude de la Cognition)
Ecole normale supérieure, Paris Sciences & Lettres Univ., 29 rue d'Ulm. 75005 Paris, France
(2) Laboratoire des Systèmes Perceptifs, CNRS UMR LSP 8248
Ecole normale supérieure, Paris Sciences & Lettres Univ., 29 rue d'Ulm, 75005 Paris, France.
http://www.cognition.ens.fr/ ; https://lsp.dec.ens.fr/

Training:

- 2000 : Habilitation à Diriger les Recherches, HDR (Psychology), Univ Paris Descartes, Paris, France
- 1995 : Ph.D. in Experimental Psychology, Univ Lyon II Lumière, Lyon, France
- 1986-1991: Degree and Master degree in Psychology, Univ Lyon II Lumière, Lyon, France

Academic positions:

- 2011- … : Full Professor in Experimental Psychology (PREX1), Ecole normale supérieure, Paris
- 2001-2011 : Full Professor in Experimental Psychology, UFR Institut de Psychologie, Univ Paris Descartes, Paris
- 1997-2001 : Assistant Professor in Psychology & Computational modelling (Maître de Conférences en Psychologie Cognitive & Modélisation), UFR Institut de Psychologie, Univ Paris Descartes, Paris
- 1996-1997: Junior Scientist, Institute of Hearing Research, MRC, Royal Glasgow Infirmary, Glasgow, UK
- 1995-1996: Post-doctoral scientist (grant from the Fyssen Foundation), Applied Psychology Unit, Medical Research Council (MRC), Cambridge, UK

Awards:

- 2019: Chevalier des Palmes Académiques
- 2008: Elected Fellow of the Acoustical Society of America (FASA)
- 2001-2006 : Institut Universitaire de France (Junior member)
- 2007 : Accueil en délégation au CNRS (1 semester)
- 2006 : Congé de Recherche (CRCT) au titre du CNRS (1 semester)
- 2001- … : Titulaire de la Prime d'Encadrement Doctoral

Invited positions:

- 2011: Bloedel Traveling Scholar Award (1 month) Visiting scholar. Virginia Merrill Bloedel Hearing Research Center, Dept of Otolaryngology, Univ. of Washington, Seattle, USA
- 2007-2014: Visiting scholar & Associate Member (1 month/year). Auditory Laboratory. Dept of Experimental Psychology, Univ. of Cambridge, UK
- 2007: Visiting Scholar (2 months). Parmly Hearing Institute. Loyola Univ. Chicago, USA
- 2000: Visiting Scholar (1 month). Dept of Physiological Sciences. Newcastle Univ. Medical School, Newcastle Upon Tyne, UK

Teaching:

- Creation and coordination of the training program (M1) in Experimental Psychology of the "Master de Recherche en Sciences Cognitives: *Cogmaster*" (Ecole normale supérieure, Univ. Paris Descartes, Ecole des Hautes Etudes en Sciences Sociales) between 2005 and 2011
- 2005-present: Advanced courses in Experimental Psychology, Psychoacoustics and Audiology at the undergraduate, Master and doctoral levels
- Student advisor for 26 students (Master degree, M1, M2) in Psychology or Cognitive Sciences (Master in cognitive sciences (Cogmaster), Ecole normale supérieure; UFR de psychologie, Univ. Paris Descartes) and 22 (undergraduate) students in Audiology (Ecoles d'Audioprothèse de Fougère, Lyon, Nancy, Paris)
- Member (co-chair) of the Graduate Faculty of Purdue Univ., Dept of Speech, Language and Hearing Sciences (USA) – (special appointment, member, co-chair; 2010-2015)
- Jury member for 55 French and Foreign PhDs (UK, Belgium, Netherlands, Germany, DK, USA, Australia, India), and jury member for 11 "habilitations à Diriger les Recherches" (HDR) in France

Research topics:

My research program focuses on the processing of the *temporal structure of sounds* (e.g., speech, soundscapes) by the normal and impaired auditory system in humans. I study the auditory perception of two types of temporal modulations of the acoustic signal, the temporal envelope and temporal fine structure, using various approaches (psychophysics, clinical audiology, computer modeling, developmental psychology, neuropsychology, brain imaging, electrophysiology).

Bibliometrics and other numbers:

- Total number of publications: 87 in referred journals since 1995; 11 book chapters
- Total number of citations: >2390 citations (ISI-Web of Science, Jan 2020); >4000 citations (Google scholar, Jan 2020)
- h-factor: 24 (ISI-Web of Science, Jan 2020); 32 (Google scholar, Jan 2020)
- ResearcherID profile: https://publons.com/researcher/2723012/christian-lorenzi/
- Google Scholar profile: http://scholar.google.com/citations?user=aQhDgGEAAAAJ
- ORCID ID: http://orcid.org/0000-0001-7240-1653
- Number of supervised advanced students: 10 Ph.D. students, 9 post-docs
  Ph.D. Students, current position: Fréderic Apoux (scientist, Univ Columbia, USA); Christian Füllgrabe (scientist, MRC-IHR, UK); Dan Gnansia (Head of clinical research, Neurelec Oticon Medical); Marine Ardoint (clinical research assistant, Neurelec Oticon Medical), Agnès Léger (Lecturer, Univ Manchester, UK), Laurianne Cabrera (postdoc scientist, Univ Washington, Seattle, USA; Univ College London, UK; now CR2 CNRS scientist); Nihaad Paraouty (postdoc scientist, NYU), Nicolas Wallaert (audiologist), Sarah Attia (Ph.D. in progress), Charbel Nassif (Ph.D. in progress)
  Postdocs: Gaetan Gilbert, David T. Ives, Willemijn Heeren, Arkadiusz Stasiak, Perrine Brusini, Andrew King, Léo Varnet (now CR2 CNRS scientist), Dorothée Arzounian, Axelle Calcus.

Fundings/Grants

Major Grants:

- 2019-2020: Effort d'écoute & Implant cochléaire, Oticon Medical/Neurelec, PI (€ 119,000)
- 2017-2020: AUDIN, College national des audioprothesistes; Entendre SAS , PI (€ 100,000)
- 2017-2021: DEV-ORL/DIDEROT, Industrial collaboration; Advanced Bionics, USA-France, PI (€ 460,000)
- 2015-2018: ANR "SPEECHCODE", ANR-15-CE37-0009-01, Co-PI (€ 68,640)
- 2015-2017: ANR "HEART", ANR-14-CE30-0019-01 PI and network co-ordinator (€ 261,000)
- 2011-2013: ANR "HEARFIN", ANR-11-BSH2-0004 PI and network co-ordinator (€ 250,000)
- 2010-2013: Industrial collaboration; Starkey, USA-France, PI (€ 213,680)
- 2008-2009: FP7-SME-2007-1 FP7-SME-222291 "DUALPRO" #2967, Network co-ordinator (€ 125,500)

2011-2013: Coordinator of the Labex IEC (Institut d'Etude de la Cognition) project (€ 8 500,000 for 9 yrs)

Other Grants:

- 2017-2018 : Industrial collaboration; Starkey, USA-France, PI (€ 65,540)
- 2017-2018 : Collège national des audioprothésistes, France, PI (€ 35,000)
- 2013-2017 : Industrial collaboration, Consortium Entendre SAS, PI (€ 240,573)
- 2013-2017 : Industrial collaboration, Neurelec Oticon Medical, PI (€ 83,000)
- 2010-2011: The Royal Society / International Joint Project 2009R3 (PI : BCJ Moore ; Co-PI : C. Lorenzi) (€ 13,500)
- 2010 : Industrial collaboration, Neurelec , PI (€ 25,000)
- 2009-2012 : ANR MNP Presbyacousie ANR-08-MNPS-000 (PI : C. Petit ; Co-PI: C. Lorenzi) (€ 39,520)
- 2009 : RTRS-Fondation Voir & Entendre (PI: C. Petit ; Co-PI: C. Lorenzi) (€ 13,500)
- 2007 : Industrial collaboration, Advanced Bionics, PI (€ 8000)
- 2007 : Industrial collaboration, Consortium Entendre SAS, PI (€ 57,810)
- 1999-2001 : Ministère de la Recherche / Programme Cognitique (C. Drake & C. Lorenzi, co-PIs) (€ 91,500)
- 1999-2001 : "Bonus Qualité Recherche" (BQR)- Université Paris Descartes, PI (€ 3000)
- 1998 : Fondation de l'Avenir pour la Recherche Médicale Appliquée, Etude N°ET8244, PI (€ 25,000)

Main professional contributions:

Local responsabilities:

- Director of Scientific Studies at Ecole normale superieure, Paris (2014 - ...) [Direction of studies at ENS is equivalent to 'dean of scientific studies" or "adjunct head (Vice-President) of CFVU (Conseil Formation & Vie Universitaire)" in French universities; Direction of scientific studies coordinates the scientific curriculum at ENS

and teaching delivered by the 7 scientific depts of ENS: physics, chemistry, mathematics, geosciences, computer sciences, biology, cognitive sciences]
- Head of the Departement d'Etudes Cognitives, Ecole normale supérieure, Paris (2009-2013) [HoD is equivalent to head of UFR/Depts in French Universities]
- Head of the 'Institut d'Etude de la Cognition (LabEx IEC, ranked A+, 2011, Investissements d'avenir program)" of Ecole normale supérieure (2011-2013: Budget: € 8.5 M)). IEC hosts 6 CNRS/INSERM research units, 70 PIs (permanent scientists), and a teaching (Master degree) program in Cognitive Sciences (Cogmaster: 100 students/year).
- Founder and Leader of the "Audition" team of UMR CNRS 8158 (2004-2007; 3 PIs, 1 Technician,~ 10 PhD students/postdocs)
- Member of the Conseil d'Orientation Stratégique (COS), Univ. Paris Descartes (2008 - 2011)
- President of the 'Commission Pédagogique de DEUG (Transferts & Equivalences)', UFR Psychologie, Univ. Paris Descartes (2002-2006)

National responsabilities:

- Member of the International Scientific Advisory Board (SAB) of the "Centre de recherche en neurosciences de Lyon" CRNL (Univ Lyon 1, CNRS, INSERM, Univ St Etienne) (2013-…)
- Founder (2005) and director (2005-2009) of the national consortium for research in audiology affiliated to CNRS: GDR GRAEC (CNRS GDR 2967, ~27 partners)
- Member of Section 16 "Psychologie" of the Conseil National des Universités, CNU" (2007-2011)
- Member of the "Commission nationale d'attribution des Primes d'Encadrement Doctoral (PEDR) et des Primes d'Excellence Scientifique PES" (2008, 2009)
- Member of the "Comité Opérationnel d'Ethique (COPE ; CNRS Ethics committee) » du CNRS" (2006)
- Member of the Bureau de l'Institut Universitaire de France (IUF) (2006)

Ad Hoc reviewer for international journals:

Journal of the Acoustical Society of America (JASA); Hearing Research; Perception & Psychophysics; Journal of Research in Otolaryngology (JARO); Ear and Hearing; Audiology and NeuroOtology; International Journal of Audiology; Journal of Speech, Language and Hearing Research; Frontiers in Neuroscience; Trends in Hearing; IEEE Transactions on Biomedical Engineering; Acta Acustica; Audiology; Speech Communication; Developmental Science; Current Pediatric Reviews; Biological Cybernetics; Current Biology; Neuroimage; Journal of Neuroscience; Brain Research; Behavioral and Brain Functions; Plos One; PNAS; Scientific Reports, eLife.

Editorial Board of international journals:

Trends in Hearing
Journal of Research in Otolaryngology (JARO)

Ad Hoc reviewer for grant applications:

- Ministère de l'Enseignement Supérieure et de la Recherche, France
- RNTS (Réseau National Technologies pour la Santé). Ministère de l'Economie, des Finances et de l'Industrie, France
- ANR (Agence nationale de la recherche). Programme EMCO 2011 (Emotion, Cognition, Comportement), France
- ANRT, CIFRE program, France
- IRBA (Institut de Recherche biomédicale des Armées), France
- NSERC, CRSNG (Conseil de recherches en sciences naturelles et en génie du Canada). Programme RGPIN, Ottawa, Ontario, Canada
- Royal National Institute for Deaf People, RNID (International Grants), London, UK.
- Royal Society (Royal Society Leverhulme Trust Senior Research Fellowship application), London, UK
- Wellcome Trust. Review for the 'Principal Research Fellowship Application' (2011), UK
- Medical Research Council ; progress review of MRC Units (the Institute of Hearing Research), UK; Research Grant review (Neuroscience & Mental Health Board)
- CERG (System of Research Grant Council), Hong-Kong, China
- ERC ("ERC Starting Grant 3rd Call - 2010". "Ideas" Programme of the 7th Framework Programme 2007-2013)
- FNRS, Fond de la recherche scientifique, Belgium
- FWO, Research Foundation - Flanders (FWO), Belgium

- New Zealand Ministry of Science and Innovation (MSI), New Zealand
- Action on Hearing Loss, London, UK
- The Netherlands Organisation for Scientific Research (NWO), Netherlands

International scientific advisor :

- 2012-2017: Sensory Communication Group (L Braida, C Reed), Research Laboratory of Electronics, Massachusetts Institute of Technology, MIT, Cambridge MA, USA). NIH R01 Grant #1 R-1 DC000117 "Hearing Aid Research"
- 2009-2013: Dr.W.F.L Heeren; Leiden Univ Centre for Linguistics. Research project on: "Prosody in whispered speech" supported by the Netherlands Organisation for Scientific Research (NWO)
- 2008: Prof. S. Sheft & V. Shafiro, Loyola Univ Chicago, & Com. Disorders and Sciences, Rush University Medical Center, Chicago, USA. "Relationship between Ability to Discriminate Stochastic Patterns of Frequency Modulation and Speech Perception in Hearing-Impaired and Elderly Listeners". Supported by the National Organization for Hearing Research Foundation (NOHR)

Expertise (external reviewer) for promotion & recruitments (Foreign universities):

Univ Washington, Seattle (USA); Dept of Machine Intelligence at Peking University (PKU); Arizona Univ. (USA); Minnesota Univ. (USA); Purdue Univ. (USA). IRSST, Université de Montreal (Canada) ; Groningen Univ. (Netherlands); The Netherlands Organization for Scientific Research (NWO), Vici domain Life Sciences (Netherlands); FWO (Research Foundation - Flanders (Belgium); KU Leuven (Belgium); Cambridge Univ (UK).

Organization of scientific events:

Organization of 17 scientific events between 1999-2019: *"The Wikipedia project for Hearing sciences: Concepts of temporal envelope and temporal fine structure" (Ecole normale supérieure, Paris, 2017), "Nuit des Sciences" Ebullitions (3300 participants, Ecole normale supérieure, Paris, 2014), ARCHES (Audological Research Cores in Europe, 7th workshop, Paris, 2013; 2019), EFAS (European Federation of Audiology Societies, special session of the 11th congress, Budapest, Hungary, 2013), New Ideas in Hearing (2 meetings of Labex IEC, Ecole normale supérieure, Paris, 2009, 2012), ASA (Acoustical Society of America, special session of the 155th meeting, Paris, 2008), National consortium GDR CNRS GRAEC (6 meetings, Paris, 2006-2008), ALPC (Association pour la promotion du langage parlé complété, Nantes, 2003), SFA (Société Française d'Acoustique, 2 journées d'étude, Paris, 1999, 2000)*

Invited Seminars (2010-2019)

29 invited seminars between 2010-2019:

2019
- ENES, NeuroPSI, Université St Etienne, France
- Arizona Univ, USA
- Beijing Institute of Otolaryngology, Beijing Tongren Hospital, Capital Medical University, Beijing, China

2018
- Hearing4all, Universitaet Oldenburg, Germany
- Université Aix Marseille, UMR LPC, Marseille, France

2017
- Speech, Hearing and Phonetic sciences Dept, University College London, UK

2016
- Faculty of Music, Kyoto City University of Arts, Kyoto, Japan.
- NTT Communication Science Laboratories, Atsugi, Kanagawa, Japan.
- Manchester Centre for Audiology and Deafness, University of Manchester, UK.

2015
- Institute of Hearing Research, Medical Research Council, Nottingham, UK

2014
- Beijing Institute of Otolaryngology, Beijing Tongren Hospital, Capital Medical University, Beijing, China
- University Medical Center Groningen, University of Groningen, Groningen, Netherlands

2013
- ExpORL, Dept of neurosciences, KU Leuven, Leuven, Belgium
- Dept of Neuroscience, University Medical Center, Geneva, Switzerland
- Dept of Otorhinolaryngology - Head & Neck Surgery, Shanghai Jiaotong University, Shanghai, China
- Centro Ricerche e Studi, Amplifon & Università di Milano & Modena, Milan, Italia
- Electronics Research Labs, Massachussetts Institute of Technology (MIT), Cambridge, USA.

2012
- UNESCOG, Université Libre de Bruxelles, Bruxelles, Belgium
2011
- House Research Institute, Los Angeles, USA
- Bloedel Hearing Research Center, Univ of Washington, Seattle, USA
- Dept of Psychology, Univ of Minnesota, Minneapolis, USA
- Starkey Laboratories, Minneapolis, USA
2010
- Dept of Speech, Language and Hearing Sciences, Purdue University, USA
- Institut Fédératif de Neurosciences de Lyon, France
- Ear Club Colloquium, University of California, Berkeley, Dept of Psychology, USA
- Starkey Laboratories, Berkeley, USA

Conferences: Congress, Meeting, Workshop, Symposia (2010-2019)

89 presentations (posters/oral presentations) between 2010-2019 (France, Italy, Spain, UK, Netherlands, Switzerland, Hungary, Denmark, Sweden, Israel, USA, China, Japan), e.g.:

Lorenzi, C. (2018, May). *The contribution of Neal Viemeister to the modulation theory of hearing*. The 175th meeting of the Acoustical Society of America, 7-12 May, Minneapolis, USA.

Lorenzi, C. (2017, October). *Modulation processing by the normal and impaired auditory system: Insights from integration and interference effects*. The Third Annual USC Hearing and Communication Neuroscience Symposium, USC Health Science Campus, 6th October, Los Angeles, USA [Invited Talk].

Lorenzi, C., (2017, June). *What is auditory temporal processing and how to measure it*. XI Jornadas Internacionales sobre Avances en Adiologia. 8-10 June, Salamanca, Spain [Invited talk].

Lorenzi, C. (2016, July). *Processing time with our auditory system*. 31th International Congress of Psychology. 24-29 July, Yokohama, Japan [Invited talk].

Lorenzi, C. (2015, May). *Developmental time course of auditory perception of modulation speech cues*. 169th Meeting of the Acoustical Society of America. 18-22 May, Pittsburgh, USA [Invited talk].

Lorenzi, C. (2014, May). *Novel paradigms to investigate temporal fine structure processing*? 167th Meeting of the Acoustical Society of America, 04-09 May, Providence, Rhode Island, USA. [Invited talk]

Lorenzi, C. (2013, October). *Abnormal auditory processing in regions of normal or near normal hearing: A limiting case of encoding fidelity*. XXXIV National Meeting of the Italian Society of Audiology and Phoniatrics (SIAF), October 16-19th 2013, Venezia, Italy [Invited talk]

Lorenzi, C. (2013, July). *Abnormal auditory processing in regions of normal or near normal hearing: A limiting case of encoding fidelity*. Third International Forum on Otorhinolaryngology-Head & Neck Surgery, Shanghai Jiaotong University, July 25 to 29th 2013, Shanghai, China [Invited talk]

Lorenzi, C. (2012, January). *Temporal envelope reconstruction for normal-hearing and hearing-impaired listeners*. "The separation of envelope and fine structure for auditory research: How and Why" Meeting; St John's College, Cambridge, UK, Jan 31, 2012 [Invited talk]

Lorenzi, C. (2011, January). *Auditory mechanisms of robust speech perception*. Third Workshop on speech in noise: Intelligibility and quality, Lyon, France [Invited talk]

Lorenzi, C. (2010, October). *Auditory mechanisms of robust speech perception*. Second France-Israel symposium on mid-level audition, LEA FILN, Hebrew University, Jerusalem, Israel [Invited talk]

Lorenzi, C. (2010, March). *Role of temporal envelope and temporal fine structure cues in speech perception for normal-hearing and hearing-impaired listeners*. 2010 Meeting of the American Auditory Society, March 4-6, 2010, Scottsdale, AZ, USA [Keynote "Translational Lecture"]

Refereed Journal Publications

1. Cabrera, L., Varnet, L., Buss, E., Rosen, S. & Lorenzi, C. (2019). Development of temporal auditory processing in childhood: Changes in efficiency rather than temporal-modulation selectivity. *Journal of the Acoustical Society of America, 146,* 2415-2429.

2. Varnet, L., Langlet, C., Lorenzi, C., Lazard, D., & Micheyl, C. (2019). High-frequency sensorineural hearing loss alters cue-weighting strategies when discriminating stop consonants in noise despite restored audibility. *Trends in Hearing*, *23*, 1-18.

3. King, A., Varnet, L., & Lorenzi, C. (2019). Accounting for the masking of frequency modulation by amplitude modulation using the modulation-filterbank concept. *Journal of the Acoustical Society of America, 145, 2277-*2293.

4. Buss, E., Lorenzi, C., Cabrera, L., Leibold, L. & Grose, J. (2019). Amplitude modulation detection and modulation masking in school-age children and adults. *The Journal of the Acoustical Society of America*, 145, 2565-2575.

5. Wallaert, N., Varnet, L., Moore, B.C.J. & Lorenzi, C. (2018). Sensorineural hearing loss impairs sensitivity but spares temporal integration for detection of frequency modulation. *Journal of the Acoustical Society of America, 144,* 720-733.
6. Buss, E., Leibold, L.J., & Lorenzi, C. (2018). Speech recognition for school-age children and adults tested in multi-tone vs multi-noise band-maskers. *Journal of the Acoustical Society of America, 143*, 1458. doi: 10.1121/1.5026795
7. Paraouty, N., Stasiak, A., Lorenzi, C., Varnet, L., & Winter, I. M. (2018). Dual coding of frequency modulation in the ventral cochlear nucleus. *Journal of Neuroscience*, 20107-20117. doi: 10.1523/JNEUROSCI.2107-17.2018
8. Ewert, S., Paraouty, N., & Lorenzi, C. (2018). A two-path model of auditory modulation detection using temporal fine structure and envelope cues. *European Journal of Neuroscience*. doi: 10.1111/ejn.13846.
9. Aushana, Y, Souffi, S., Edeline, J.M., Lorenzi, C., & Huetz, C. (2018). Robust neuronal discrimination in primary auditory cortex despite degradations of spectro-temporal acoustic details: comparison between guinea pigs with normal hearing and mild age-related hearing loss. *Journal of the Association for Research in Otolaryngology.* doi: 10.1007/s10162-017-0649-1
10. Goodman, D.F.M., Winter, I.M., Léger, A.C., de Cheveigné, A., & Lorenzi, C. (2017). Modelling firing regularity in the ventral cochlear nucleus: mechanisms, and effects of stimulus level and synaptopathy. *Hearing Research*, 358, 98-110.
11. Varnet, L., Ortiz-Barajas, M. C., Guevara Erra, R., Gervain, J., & Lorenzi, C. (2017). A cross-linguistic study of speech modulation spectra. *Journal of the Acoustical Society of America*, 142, 1976-1989.
12. Wallaert, N., Moore, B.C.J., Ewert, S., & Lorenzi, C. (2017). Sensorineural hearing loss enhances auditory sensitivity and temporal integration for amplitude modulation. *Journal of the Acoustical Society of America, 141*, 971-980.
13. Paraouty, N., & Lorenzi, C. (2017). Using individual differences to assess modulation-processing mechanisms and age effects. *Hearing Research*, *344*, 38-49.
14. Joosten, E.R.M., Shamma, S.A., Lorenzi, C., & Neri, P. (2016). Dynamic reweighting of auditory modulation filters. *PLOS computational Biology*, *12(7)*. doi: 10.1371/journal.pcbi.1005019.
15. Paraouty, N., Ewert, S., Wallaert, N., & Lorenzi, C. (2016). Interactions between amplitude-modulation and frequency-modulation processing: Effects of age and hearing loss. *Journal of the Acoustical Society of America, 140,*121-131.
16. Wallaert, N., Moore, B.C.J., & Lorenzi, C. (2016). Comparing the effects of age on amplitude-modulation and frequency-modulation detection. *Journal of the Acoustical Society of America, 139,* 3088-3096.
17. Calcus, A., Lorenzi, C., Collet, G., Colin, C., & Kolinsky, R. (2016). Is there a relationship between speech identification in noise and categorical perception in children with dyslexia? *Journal of Speech, Language, and Hearing Research*, 59, 835-852.
18. Cabrera, L., Tsao, F.-M., Liu, H.-M., Li, L.-Y., Hu, Y.-H, Lorenzi, C. & Bertoncini, J. (2015). The perception of speech modulation cues in lexical tones is guided by early language-specific experience. *Frontiers in Psychology,* 6:1290. doi: 10.3389/fpsyg.2015.01290
19. Cabrera, L., Lorenzi, C., & Bertoncini, J. (2015). Infants discriminate voicing and place of articulation with reduced spectral and temporal modulation cues. *Journal of Speech, Language, and Hearing Research*, *58*, 1033-1042.
20. Léger, A.C., Ives, D.T., & Lorenzi, C. (2014). Abnormal intelligibility of speech in competing speech and in noise in a frequency region where audiometric thresholds are near-normal for hearing-impaired listeners. *Hearing Research*, *11;316C*, 102-109.
21. Moon, Il J., Won, J-H., Park, M.-H., Ives, D. T., Nie, K., Heinz, M. G., Lorenzi, C. & Rubinstein, J. T. (2014). Optimal combination of neural temporal envelope and fine structure cues to explain speech identification in background noise. *Journal of Neuroscience*, *3;34(36)*, 12145-12154.
22. Ives, D.T., Kalluri, S., Strelcyk, O., Sheft, S., Miermont, F., Coez, A., Bizaguet, E., & Lorenzi, C. (2014). Effects of noise reduction on AM perception for hearing-impaired listeners. *Journal of the Association for Research in Otolaryngology, 15*, 839-848.
23. Cabrera, L., Tsao, F-M., Gnansia, D., Bertoncini, J., & Lorenzi C. (2014). The role of spectro-temporal fine structure cues in lexical-tone discrimination for French and Mandarin listeners. *Journal of the Acoustical Society of America, 136*, 877-882.
24. Heeren, W., & Lorenzi, C. (2014). Perception of prosody in normal and whispered French. *Journal of the Acoustical Society of America, 135*, 2026-2040.
25. Won, J. H., Shim, H.J., Lorenzi, C., & Rubinstein, J.T. (2014). Use of amplitude modulation cues recovered from frequency modulation for cochlear implant users when original speech cues are severely degraded. *Journal of the Association for Research in Otolaryngology*, *15*, 423-439.

26. Gnansia, D., Lazard, D. S., Léger, A. C., Fugain, C., Lancelin, D., Meyer, B. & Lorenzi, C. (2014). Role of slow temporal modulations in speech identification for cochlear implant users. *International Journal of Audiology*, *53*, 48-54.
27. Cabrera, L., Bertoncini, J., & Lorenzi, C. (2013). Perception of speech modulation cues by 6-month-old infants. *Journal of Speech, Language, and Hearing Research*, *56*, 1733-1744.
28. Shamma, S., & Lorenzi, C. (2013). On the balance of envelope and temporal fine structure in the encoding of speech in the early auditory system. *Journal of the Acoustical Society of America, 133,* 2818-2833.
29. Ives, D. T., Calcus, A., Kalluri, S., Strelcyk, O., Sheft, S., & Lorenzi, C. (2013). Effects of noise reduction on AM and FM perception. *Journal of the Association for Research in Otolaryngology, 14,* 149-157.
30. Léger, A.C., Moore, B.C.J., & Lorenzi, C. (2012). Abnormal speech processing in frequency regions where absolute thresholds are normal for listeners with high-frequency hearing loss. *Hearing Research*, *294*, 95-103.
31. Lorenzi, C., Wallaert, N., Gnansia, D., Léger, A., Ives, D.T., Chays, A., Garnier, S., & Cazals, Y. (2012). Temporal-envelope reconstruction for hearing-impaired listeners. *Journal of the Association for Research in Otolaryngology, 13*, 853-865.
32. Sheft, S., Shafiro, V., Lorenzi, C., McMullen, R., & Farrell, C. (2012). Effect of age and hearing loss on the relationship between stochastic FM discrimination and speech perception. *Ear and Hearing, 33*, 709-720.
33. Won, J. H., Lorenzi, C., Nie, K., Li, X., Jameyson, E., Drennan, W., & Rubinstein, J. (2012). The ability of cochlear implant users to use temporal envelope cues recovered from speech frequency modulation. *Journal of the Acoustical Society of America, 132,* 1113-1119.
34. Léger, A.C., Moore, B.C.J., Gnansia, D., & Lorenzi, C. (2012). Effects of spectral smearing on temporal and spectral masking release in low- and mid-frequency region. *Journal of the Acoustical Society of America, 131,* 4114-4123.
35. Léger, A.C., Moore, B.C.J., & Lorenzi, C. (2012). Temporal and spectral masking release in the low- and mid-frequency range for normal-hearing and hearing-impaired listeners. *Journal of the Acoustical Society of America, 131,* 1502-1514.
36. Ardoint, M., Agus, T., Sheft, S., & Lorenzi, C. (2011). Importance of temporal-envelope speech cues in different spectral regions. *Journal of the Acoustical Society of America – Express Letter.130,* EL115-EL121.
37. Ziegler, J., Pech-Georgel, C., George, F., & Lorenzi, C. (2011). Noise on, voicing off: speech perception deficits in children with SLI. *Journal of Experimental Child Psychology*, *110*, 362-372.
38. Bertoncini, J., Nazzi, T., Cabrera, L., & Lorenzi, C. (2011). Six-month-old infants discriminate voicing on the basis of temporal envelope cues. *Journal of the Acoustical Society of America, 129,* 2761-2764.
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