

Christian Lorenzi, Ph.D., HDR

DOB: 15 April 1968

Current position: Full Professor in Experimental Psychology (PREX1), Ecole normale supérieure, Paris, France

Current affiliation:

- (1) Département d'Etudes Cognitives, LabEx IEC (Institut d'Etude de la Cognition)
Ecole normale supérieure, Paris Sciences & Lettres. 29 rue d'Ulm. 75005 Paris, France
- (2) Laboratoire des Systèmes Perceptifs, CNRS UMR LSP 8248
Ecole normale supérieure, 29 rue d'Ulm, 75005 Paris, France.
<http://www.cognition.ens.fr/>; <http://www.iec-lsp.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:

- 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 semestre)
- 2006 : Congé de Recherche (CRCT) au titre du CNRS (1 semestre)
- 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). Parmlly 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 (Cogmaster; 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 47 French and Foreign PhDs (UK, Belgium, Netherlands, DK, USA, Australia, India), and jury member for 8 "habilitations à Diriger les Recherches" (HDR) in France

Research topics:

My research program focuses on the processing of the *temporal structure of sounds* 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: 74 in referred journals since 1995; 11 book chapters
- Total number of citations: >1600 citations (ISI-Web of Science, July 2016); >2600 citations (Google scholar, July 2016)
- h-factor: 21 (ISI-Web of Science, July 2016); 26 (Google scholar, July 2016)
- ResearcherID profile: <http://www.researcherid.com/rid/F-5310-2012>
- Google Scholar profile: <http://scholar.google.com/citations?user=aQhDgGEAAAJ>
- Number of supervised advanced students: 8 Ph.D. students, 8 post-docs
Ph.D. Students, current position: Frédéric Apoux (scientist, Univ Columbia, USA); Christian Füllgrabe (scientist, MRC-IHR, UK); Dan Gnansia (Head of clinical research, Neurelec Oticon Medical); Marine Ardoit (clinical research assistant, Neurelec Oticon Medical), Agnès Léger (Lecturer, Univ Manchester, UK), Laurianne Cabrera (postdoc scientist, Univ Washington, Seattle, USA; Univ College London, UK); Nihaad Parouty (Ph.D. in progress), Nicolas Wallaert (Ph.D. in progress)
Postdocs: Gatean Gilbert (2 periods), David T. Ives, Willemijn Heeren, Arkadiusz Stasiak, Perrine Brusini, Andrew King, Léo Varnet.

Fundings/Grants

Major Grants:

- 2015-2018: ANR "SPEECHCODE", 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)
- 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 responsibilities:

- Director of Scientific Studies at Ecole normale supérieure, Paris (2014 - ...) [Direction of studies at ENS is equivalent to 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 Département 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)

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National responsibilities:

- 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

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 Braidà, 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):

- 2015 : FWO (Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen), Belgium) ; Excellence Prize of the Research Foundation – Flanders (Belgium)
- 2013: Arizona Univ., USA (Department of Speech, Language, and Hearing Sciences); Promotion to Full Professor
- 2012 : KU Leuven, Belgium : Recruitment of a junior research professor (junior BOFZAP)
- 2012 : Cambridge Univ, UK : Recruitment of a tenured Lecturer
- 2011 : Minnesota Univ., USA (Dept of Psychology, Univ Minnesota, Minneapolis, USA) ; Nomination of 2012 Distinguished McKnight University Professorship'
- 2011 : Groningen Univ., Netherlands (Univ Medical Center); Promotion to Associate Professor with tenure
- 2010 : Purdue Univ., USA; Promotion to Associate Professor with tenure
- 2009 : Cambridge Univ., UK; Promotion to Reader

Organization of scientific events:

Organization of 15 scientific events between 1999-2014: *"Nuit des Sciences" Ebullitions (3300 participants, Ecole normale supérieure, Paris, 2014)*, *ARCHES (Audological Research Cores in Europe, 7th workshop, Paris, 2013)*, *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 (2010-2016)

20 invited seminars between 2010-2016:

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, Massachusetts 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 (2010-2016)

66 presentations (posters/oral presentations) between 2010-2016 (France, Italy, UK, Switzerland, Hungary, Denmark, Sweden, Israel, USA, China, Japan):

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. 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.
2. 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.
3. 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.
4. Calcus, A., Lorenzi, C., Collet, G., Colin, C., & Kolinsky, R. (2016, in press). Is there a relationship between speech identification in noise and categorical perception in children with dyslexia? *Journal of Speech, Language, and Hearing Research*.
5. 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
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. Heeren, W., & Lorenzi, C. (2014). Perception of prosody in normal and whispered French. *Journal of the Acoustical Society of America*, 135, 2026-2040.
12. 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.
13. 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.

14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. Gilbert, G., & Lorenzi, C. (2010). Role of spectral and temporal cues in restoring missing speech information. *Journal of the Acoustical Society of America - Express Letter*, 128, EL294-EL299.
27. Ardoint, M., & Lorenzi, C. (2010). Effects of lowpass and highpass filtering on the intelligibility of speech based on temporal fine structure or envelope cues. *Hearing Research*, 260, 89-95.
28. Ardoint, M., Sheft, S., Fleuriot, P., Garnier, S. & Lorenzi, C. (2010). Perception of temporal fine structure cues in speech with minimal envelope cues for listeners with mild-to-moderate hearing loss. *International Journal of Audiology*, 49, 823-831.
29. Gnansia, D., Pressnitzer, D., Pean, V., Meyer, B. & Lorenzi, C. (2010). Intelligibility of interrupted and interleaved speech in normal-hearing listeners and cochlear implantees. *Hearing Research*, 14, 46-53.
30. Gnansia, D., Pean, V., Meyer, B., & Lorenzi, C. (2009). Effects of spectral smearing and temporal fine structure degradation on speech masking release. *Journal of the Acoustical Society of America*, 125, 4023-4033.
31. Bertoncini, J., Serniclaes, W., & Lorenzi, C. (2009). Speech discrimination based upon temporal envelope and fine structure cues in children. *Journal of Speech, Language, and Hearing Research*, 52, 682-695.
32. Ziegler, J., Pech-Georgel, C., George, F., & Lorenzi, C. (2009). Speech perception in noise deficits in dyslexia. *Developmental Science*, 12, 732-745.

33. Lorenzi, C., Debrulle, L., Garnier, S., Fleuriot, P., & Moore, B.C.J. (2009). Abnormal auditory temporal processing for frequencies where absolute thresholds are normal. *Journal of the Acoustical Society of America*, 125, 27-30.
34. Sheft, S., Ardoit, M., & Lorenzi, C. (2008). Speech identification based on temporal fine structure cues: Comparison of two speech coding schemes. *Journal of the Acoustical Society of America*, 124, 562-575.
35. Guehl, D., Burbaud, P., Lorenzi, C., Ramos, C., Bioulac, B., Semal, C., & Demany, L. (2008). Auditory temporal processing in Parkinson's disease. *Neuropsychologia*, 46, 2326-2335.
36. Gnansia, D., Jourdes, V., & Lorenzi, C. (2008). Effect of masker modulation depth on speech masking release. *Hearing Research*, 239, 60-68.
37. Ardoit, M., Lorenzi, C., Pressnitzer, D. & Gorea, A. (2008). Perceptual constancy in the temporal envelope domain. *Journal of the Acoustical Society of America*, 123, 1591-1601.
38. Gilbert, G., Bergeras, I., Voillery, D., & Lorenzi, C. (2007). Effects of periodic interruption on the intelligibility of speech based on temporal fine-structure or envelope cues. *Journal of the Acoustical Society of America*, 122, 1336-1339.
39. Lorenzi, C., Gilbert, G., Carn, H., Garnier, S., & Moore, B.C.J. (2006). Speech perception problems of the hearing impaired reflect inability to use temporal fine structure. *Proceedings of the National Academy of Science USA*, 103(49), 18866-18869.
40. Lorenzi, C., Husson, M., Ardoit, M. & Debrulle, X. (2006). Speech masking release in listeners with flat hearing loss: Effects of masker fluctuation rate on identification scores and phonetic feature reception. *International Journal of Audiology*, 45, 487-495.
41. Bruckert, L., Herrmann, M. & Lorenzi, C. (2006). No adaptation in the amplitude modulation domain in trained listeners. *Journal of the Acoustical Society of America*, 119, 3542-3545.
42. Gilbert, G., & Lorenzi, C. (2006). The ability of listeners to use recovered envelope cues from speech fine structure. *Journal of the Acoustical Society of America*, 119, 2438-2444.
43. Füllgrabe, C., Berthommier, F., & Lorenzi, C. (2006). Masking release for consonant features in temporally fluctuating background noise. *Hearing Research*, 211, 74-84.
44. Guérin, A., Le Bouquin Jeannès, R., Bès, J., Faucon, G., & Lorenzi, C. (2006). Evaluation of two computational models of amplitude modulation coding in the inferior colliculus. *Hearing Research*, 211, 54-62.
45. Füllgrabe, C., Moore, B.C.J., Demany, L., Sheft, S., Ewert, S., & Lorenzi, C. (2005). Modulation masking with 2nd-order modulators. *Journal of the Acoustical Society of America*, 117, 2158-2168.
46. Füllgrabe, C., & Lorenzi, C. (2005). Perception of the envelope beat frequency of inharmonic, complex temporal envelopes. *Journal of the Acoustical Society of America*, 118, 3757-3765.
47. Ziegler, J.C., Pech-Georgel, C., George, F., Alario, F-X., & Lorenzi, C. (2005). Deficits in speech perception predict language learning impairment. *Proceedings of the National Academy of Science USA*. 102: 14110-14115.
48. Füllgrabe, C., Mailliet, D., Moroni, C., Belin, C., & Lorenzi, C. (2004). Detection of 1st- and 2nd-order temporal envelope cues in a patient with left brain damage. *NeuroCase*, 10, 189-197.
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