

**Publications list of  
Rafael LABOISSIÈRE  
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**Refereed journal articles**

(In this section and in the following ones, the ☆ symbol indicates publications written with students.)

- ☆ Bayet L, Quinn P, **Laboissière R**, Caldara R, Lee K, and Pascalis O (2017), Fearful but not happy expressions boost face detection in human infants 284(1862): 20171054. <https://doi.org/10.1098/rspb.2017.1054>
  
- Laboissière R**, Barraud PA, and Cian C (2017), Real and visually-induced body inclination differently affect the perception of object stability. *PLoS ONE* 12(10): 1–15. <https://doi.org/10.1371/journal.pone.0186431>
  
- ☆ Blandin R, Van Hirtum A, Pelorson X, and **Laboissière R** (2016), Influence of higher order acoustical propagation modes on variable section waveguide directivity: Application to vowel [a]. *A Acust* 102: 918–929. <https://doi.org/10.3813/AAA.919006>
  
- Boudiaf N, **Laboissière R**, Cousin E, Fournet N, Krainik A, and Baciú M (2016), Behavioral evidence for a differential modulation of semantic processing and lexical production by aging: a full linear mixed-effects modeling approach. *Aging Neuropsychol Cogn* page 1–22. <https://doi.org/10.1080/13825585.2016.1257100>
  
- ☆ Blandin R, Arnela M, **Laboissière R**, Pelorson X, Guasch O, Van Hirtum A, and Laval X (2015), Effects of higher order propagation modes in vocal tract like geometries. *J Acoust Soc Am* 137(2): 832–843. <https://doi.org/10.1121/1.4906166>
  
- Laboissière R**, Letievant JC, Ionescu E, Barraud PA, Mazzuca M, and Cian C (2015), Relationship between spectral characteristics of spontaneous postural sway and motion sickness susceptibility. *PLoS ONE* 10(12): e0144466. <https://doi.org/10.1371/journal.pone.0144466>
  
- ☆ Kallel F, **Laboissière R**, Ben Hamida A, and Berger-Vachon C (2013), Influence of a shift in frequency distribution and analysis rate on phoneme intelligibility in noisy environments for simulated bilateral cochlear implants. *Appl Acoust* 74(1): 10–17.
  
- ☆ Loureiro MA, Mota DA, Campolina T, Yehia HC, and **Laboissière R** (2012), Interpretative coupling and synchronization in clarinet duos. *OPUS – Revista da Associação Nacional de Pesquisa e Pós-Graduação em Música / ANPPOM* 18(2): 181–206. (in Portuguese).
  
- ☆ Canault M and **Laboissière R** (2011), Le babillage et le développement des compétences articulatoires: Indices temporels et moteurs. *Faits de Langue* 37: 173–188.
  
- ☆ Priot AE, **Laboissière R**, Plantier J, Prablanc C, and Roumes C (2011), Partitioning the components of visuomotor adaptation to prism-altered distance. *Neuropsychologia* 49(3): 498–506.
  
- ☆ Priot AE, **Laboissière R**, Sillan O, Roumes C, and Prablanc C (2010), Adaptation of egocentric distance perception under telestereoscopic viewing within reaching space. *Exp Brain Res* 202(4): 825–836.
  
- ☆ **Laboissière R**, Lametti DR, and Ostry DJ (2009), Impedance control and its role in achieving precision in orofacial movement. *J Neurophysiol* 102: 523–531.
  
- ☆ Häberle A, Schütz-Bosbach S, **Laboissière R**, and Prinz W (2008), Ideomotor action in cooperative and competitive settings. *Soc Neurosci* 3(1): 26–36.

- ☆ Rochet-Capellan A, **Laboissière R**, Galván A, and Schwartz JL (2008), The speech focus position effect on jaw-finger coordination in a pointing task. *J Speech Lang Hear Res* 51: 1507–1521.
- Ohta K, Svinin MM, Luo Z, Hosoe S, and **Laboissière R** (2004), Optimal trajectory formation of constrained human arm reaching movements. *Biol Cybern* 91(1): 23–36.
- ☆ Shiller DM, **Laboissière R**, and Ostry DJ (2002), Relationship between jaw stiffness and kinematic variability in speech. *J Neurophysiol* 88(5): 2329–2340.
- ☆ Shiller DM, Ostry DJ, Gribble PL, and **Laboissière R** (2001), Compensation for the effects of head acceleration on jaw movement in speech. *J Neurosci* 21(16): 6447–6456.
- Abry C, Boë LJ, **Laboissière R**, and Schwartz JL (1998), A new puzzle for the evolution of speech? *Behav Brain Sci* 21(4): 512–513.
- ☆ Gribble P, Ostry D, Sanguineti V, and **Laboissière R** (1998), Are complex control signals required for human arm movement? *J Neurophysiol* 79(3): 1409–1424.
- Sanguineti V, **Laboissière R**, and Ostry DJ (1998), A dynamic biomechanical model for neural control of speech production. *J Acoust Soc Am* 103(3): 1615–1627.
- ☆ Sanguineti V, **Laboissière R**, and Payan Y (1997), A control model of human tongue movements in speech. *Biol Cybern* 77(1): 11–22.
- Laboissière R**, Ostry DJ, and Feldman AG (1996), Control of multi-muscle systems: Human jaw and hyoid movements. *Biol Cybern* 74(3): 373–384.
- Perrier P, Ostry DJ, and **Laboissière R** (1996), The equilibrium point hypothesis and its application to speech motor control. *J Speech Hear Res* 39: 365–378.
- Badin P, Beautemps D, **Laboissière R**, and Schwartz JL (1995), Recovery of vocal tract geometry from formants for vowels and fricative consonants using a midsagittal-to-area function conversion model. *J Phon* 23: 221–229.
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- ☆ Ostry DJ, **Laboissière R**, and Gribble PL (1995), Command invariants and the frame of reference for human movement. *Behav Brain Sci* 18(4): 770–772.
- Bailly G, **Laboissière R**, and Schwartz JL (1991), Formant trajectories as audible gestures: An alternative for speech synthesis. *J Phon* 19(1): 9–23.

## Book chapters

- Mota DA, Loureiro M, and **Laboissière R** (2017) Gestural interactions in ensemble performance. In Lesaffre M, Maes PJ, and Leman M (Editors), *The Routledge Companion to Embodied Music Interaction*, page 177–185. London: Routledge.
- Cathiard MA, Vilain A, **Laboissière R**, Loevenbruck H, Savariaux C, and Schwartz JL (2012) Bimodal perception within the natural time-course of speech production. In Bailly G, Perrier P, and Vatikiotis-Bateson E (Editors), *Audiovisual Speech Processing*, page 121–158. Cambridge, UK: Cambridge University Press.
- ☆ Bellier L, Mazzuca M, Caclin A, **Laboissière R**, Veillet E, Collet L, and Thai-Van H (2011) Les potentiels évoqués auditifs en réponse à des signaux de parole (SPEECH ABRs). In Collet L (Editor), *Nouvelles explorations et nouveaux traitements en audiologie : de la mécanique cochléaire aux processus auditifs centraux*, volume 51 of *Les Monographies Amplifon*, page 41–57. Société Amplifon.

- ☆ Abry C, Stefanuto M, Vilain A, and **Laboissière R** (2002) What can the utterance ‘tan, tan’ of Broca’s patient Leborgne tell us about the hypothesis of an emergent ‘babble-syllable’ downloaded by SMA? In Durand J and Laks B (Editors), *Phonetics, Phonology, and Cognition*. Oxford University Press.
- Laboissière R** (2000) La robotique de la parole. In Schwartz J and Escudier P (Editors), *La parole : des modèles cognitifs aux machines communicantes*, page 27–50. Cachan, France: Lavoisier.
- ☆ Bailly G, **Laboissière R**, and Galván A (1997) Learning to speak: Speech production and sensori-motor representations. In Morasso P and Sanguineti V (Editors), *Self-Organization, Computational Maps and Motor Control*, page 593–615. North-Holland: Elsevier. (sous presse).
- ☆ Gribble PL, **Laboissière R**, and Ostry DJ (1997) Control of human arm and jaw motion: Issues related to musculo-skeletal geometry. In Morasso P and Sanguineti V (Editors), *Self-Organization, Computational Maps and Motor Control*, volume 119 of *Advances in Psychology Series*, page 483–506. North-Holland: Elsevier.

## Edited Collections

- Yehia HC, Demolin D, and **Laboissière R** (Editors) (2006) *Proceedings of the 7th International Seminar on Speech Production*. Ubatuba, Brazil: CEFALA/UFMG. ISBN 85-99598-02-3.
- Perrier P, **Laboissière R**, Abry C, and Maeda S (Editors) (1997) *Speech Production: Models and Data*. EURASIP, Amsterdam: Elsevier. Speech Communication, volume 22, issues 2–3, selected articles from the 4th Speech Production Seminar: Models and Data, Autrans, France).

## Published Conference Proceedings

- ☆ Barbier G, Boë LJ, Captier G, and **Laboissière R** (2015) Human vocal tract growth: A longitudinal study of the development of various anatomical structures. In Möller S, Ney H, Möbius B, Nöth E, and Steidl S (Editors), *Proceedings of InterSpeech 2015*, page 364–368. Dresden, Germany: International Speech Communication Association.
- ☆ Blandin R, Van Hirtum A, Pelorson X, and **Laboissière R** (2015) Influence of higher order propagation acoustic modes on speech directivity. In *Proceedings of the 22nd International Congress on Sound and Vibration (ICSV22)*, volume 6, page 4418–4425. Firenze, Italy.
- Priot AE, Neveu P, Priot B, Prablanc C, Roumes C, and **Laboissière R** (2015) Adaptive estimates of egocentric distance from vergence angle in telestereoscopic viewing: von Hofsten’s model revisited. In *Proceeding of the 2015 International Conference on 3D Imaging*, page 1–8. Belgium: University of Liège.
- ☆ Blandin R, Pelorson X, Van Hirtum A, **Laboissière R**, Guasch O, and Arnela M (2014) Effet des modes de propagation non plan dans les guides d’ondes à section variable. In *Actes du 12e Congrès Français d’Acoustique*, page 745–751. Poitiers, France.
- ☆ Bellier L, Mazzuca M, Thai-Van H, Caclin A, and **Laboissière R** (2013) Categorization of speech in early auditory evoked responses. In *Proceedings of InterSpeech 2013*. Lyon, France.
- ☆ Canault M, **Laboissière R**, Perrier P, and Sock R (2008) Development of lingual displacement independence at babbling stage. In Sock R, Fuchs S, and Laprie Y (Editors), *Proceedings of the International Seminar on Speech Production*, page 177–180. Strasbourg, France.
- ☆ **Laboissière R**, Lametti DR, and Ostry DJ (2008) Role of impedance control in achieving precision in orofacial movement. In Sock R, Fuchs S, and Laprie Y (Editors), *Proceedings of the International Seminar on Speech Production*, page 401–404. Strasbourg, France.

- ☆ Rochet-Capellan A, Vilain C, Marion D, **Laboissière R**, and Schwartz JL (2008) Does the number of syllables affect the finger pointing movement in a pointing-naming task? In Sock R, Fuchs S, and Laprie Y (Editors), *Proceedings of the International Seminar on Speech Production*, page 257–260. Strasbourg, France.
  
- Ohta K, **Laboissière R**, and Miyaji C (2007) Force control trajectory planning for force interactive task. In *Proceedings of the 3rd International Symposium on Measurement, Analysis, and Modeling of Human Functions (ISHF 2007)*, page 52–57. Lisbon, Portugal: Faculdade de Motricidade Humana.
  
- ☆ Rochet-Capellan A, Schwartz JL, **Laboissière R**, and Galván A (2007a) Pointing to a target while naming it with labial-coronal or coronal-labial CVCV: the effect of consonants order and stress position on jaw-finger coordination. In *8th International Conference on Speech Communication and Technology (InterSpeech 2007)*, page 634–637. Antwerp, Belgium.
  
- ☆ Rochet-Capellan A, Schwartz JL, **Laboissière R**, and Galván A (2007b) Two CV syllables for one pointing gesture as an optimal ratio for jaw-arm coordination in a deictic task: A preliminary study. In *European Cognitive Science Conference (EuroCogSci07)*, page 608–613. Delphes, Greece.
  
- ☆ Rochet-Capellan A, Schwartz J, **Laboissière R**, and Galván A (2006) Finger-jaw coordination during a deictic gesture with CVCV utterances: the effect of stress position. In *7th International Seminar on Speech Production*, page 193–200. Ubatuba, Brazil.
  
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- ☆ Galván-Rodríguez A and **Laboissière R** (2003) Speaker normalization using an articulatory model. In *Proceedings of the XIII<sup>th</sup> International Congress on Phonetic Sciences*, page 1325–1328. Barcelona, Spain.
  
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- ☆ Ostry DJ, Shiller DM, and **Laboissière R** (2001) Jaw impedance and its influence on speech production. In *Proceedings of the First International Symposium on Measurement, Analysis and Modeling of Human Functions*, page 353–358. Sapporo, Japan.
  
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- ☆ Shiller DM, **Laboissière R**, Sanguineti V, and Ostry DJ (2000) Jaw mechanical behaviour during speech production. In *Proceedings of the 5th Speech Production Seminar: Models and Data*, page 13–16. Kloster Seeon, Germany.

- ☆ Berrah AR and **Laboissière R** (1999) SPECIES: An evolutionary model for the emergence of phonetic structures in an artificial society of speech agents. In Floreano D, Nicoud JD, and Mondada F (Editors), *Advances in Artificial Life*, volume 1674 of *Lecture Notes in Artificial Intelligence*, page 674–678. Springer-Verlag.
- ☆ Raulo D and **Laboissière R** (1999) Web-UPSID: A user-friendly interface for the UCLA phonological segment inventory database. In *Proceedings of the XIVth International Congress of Phonetic Sciences*, page 1121–1124. San Francisco, USA: Linguistics Department, University of California.
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- ☆ Rossato S, Feng G, and **Laboissière R** (1998) Recovering gestures from speech signals: Preliminary study for nasal vowels. In *Proceedings of the ICSLP '98*, volume 3, page 1091–1093. Sydney, Australia.
- ☆ Berrah AR and **Laboissière R** (1997) Phonetic code emergence in a society of speech robots: Explaining vowel systems and the MUAF principle. In *Proceedings of the 5th European Conference on Speech Communication and Technology*, page 2395–2398. Rhodes, Greece.
- ☆ Pelorson X, **Laboissière R**, and El Masri S (1997) Vocal tract acoustics at high frequencies. In *Proceedings of the 4th French Congress on Acoustics*, volume 1, page 401–404. Marseilles, France.
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- ☆ Berrah AR, Glotin H, **Laboissière R**, Bessière P, and Boë L (1996) From form to formation of phonetic structures: An evolutionary computing perspective. In Fogarty T and Venturini G (Editors), *Proceedings of the ICML'96 Workshop on Evolutionary Computing and Machine*, page 23–29. Bari, Italy.
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- ☆ Glotin H and **Laboissière R** (1996) La vie artificielle d'une société de robots parlants : Émergence et changements du code phonétique. In *Du Collectif au Social — Actes de Journées de Rochebrune*, page 113–125. École Nationale Supérieure des Télécommunications.
- ☆ **Laboissière R** and Galván-Rodríguez A (1995) Inferring the commands of an articulatory model from acoustical specifications of stop/vowel sequences. In *Proceedings of the XIII<sup>th</sup> International Congress on Phonetic Sciences*, volume 1, page 358–361. Stockholm.
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- Laboissière R**, Schwartz JL, and Bailly G (1991) Motor control for speech skills: A connectionist approach. In Touretzky DS, Elman JL, Sejnowski TJ, and Hinton GE (Editors), *Proceedings of the 1990 Connectionist Models Summer School*, page 319–327. San Mateo, CA: Morgan Kaufmann.
- Perrier P, **Laboissière R**, and Eck L (1991) Modelling of speech motor control and articulatory trajectories. In *Proceedings of the XIIIth International Congress on Phonetic Sciences*, volume 2, page 62–65. Aix-en-Provence, France.

## Conference Presentations / Published Abstracts

- ☆ Blandin R, Pelorson X, Van Hirtum A, **Laboissière R**, and Arnela M (2014) Modélisation aéroacoustique de la production de la parole. In *Journées Jeunes Chercheurs en Audition, Acoustique musicale et Signal audio*, page 745–751. Lyon, France.
- Laboissière R**, Mazzuca M, Arias-Rojas V, Collet L, Thai-Van H, and Truy E (2013a) Long-term electrophysiological survey of cochlear implanted patients: Auditory maturation and laterality of language function. In *20th World Congress of the International Federation of Oto-Rhino-Laryngological Societies*. Seoul, Korea.
- Laboissière R**, Mazzuca M, Arias-Rojas V, Thai-Van H, Truy E, and Collet L (2013b) Long-term electrophysiological survey of cochlear implanted patients: laterality of language function and auditory maturation. In *11th Meeting of the French Neuroscience Society*. Lyon, France.
- Laboissière R** (2012) Packaging Octave in Debian. In *Debian for Scientific Facilities Days*. ESRF Grenoble, France.
- ☆ **Laboissière R**, de Almeida LS, Yehia HC, and Cristófaros-Silva T (2012a) On-going mixing of vowel categories in verbal morphology in Brazilian Portuguese: The importance of fine phonetic detail. In *2nd Workshop on Sound Change*. Seon, Germany.
- Laboissière R**, Mazzuca M, Thai-Van H, and Collet L (2012b) Discovering the relevant variables in a large clinical database by back-fitting fixed effects in a mixed linear model: Study of a long-term electrophysiological survey of cochlear implanted patients. In *1ères Rencontres R*. Bordeaux, France.
- Laboissière R**, Yehia HC, and Pelorson X (2012c) Higher order modes propagation in the human vocal tract. In *Acoustics 2012*. Nantes, France. (invited talk).
- ☆ Loureiro MA, Mota DA, Campolina T, Yehia HC, and **Laboissière R** (2012) Patterns of temporal synchronization in clarinet duos: Influence of accompanist and musical structure. In *XXII Congresso da ANPPOM*. João Pessoa, Brazil. (in Portuguese).
- ☆ Bellier L, Caclin A, **Laboissière R**, Mazzuca M, Veuillet E, Collet L, and Thai-Van H (2011) Étude des Speech ABR en tant que marqueurs électrophysiologiques d’une audition normale. In *Congrès de la Société Française d’ORL*. Paris, France.
- ☆ Kosta K, **Laboissière R**, Ostry D, Porot M, Mazzuca M, Collet L, Truy E, and Thai-Van H (2011a) Évaluation acoustique du développement du langage oral chez l’enfant implanté cochléaire. In *XIe Congrès de la Société Française d’Audiologie*. Montpellier, France.

- ☆ Kosta K, **Laboissière R**, Ostry D, Porot M, Truy E, and Thai-Van H (2011b) Assessment of speech production development in cochlear-implanted children. In *10th European Symposium of Paediatric Cochlear Implantation*. Athens, Greece.
  - ☆ Kosta K, **Laboissière R**, Ostry DJ, Porot M, Mazzuca M, Truy E, and Thai-Van H (2011c) Évaluation acoustique du développement du langage oral chez l'enfant implanté cochléaire : Résultats préliminaires. In *Congrès de la Société Française d'ORL*. Paris, France.
  - ☆ Kosta K, Thai-Van H, Ostry DJ, Porot M, Truy E, and **Laboissière R** (2011d) Somatosensory representation of speech in cochlear implanted children. In *9th International Seminar on Speech Production (ISSP'11)*. Montreal, Canada.
- Laboissière R**, Mazzuca M, Gallégo S, Richard C, Jeanvoine A, Veuillet E, and Thai-Van H (2011) Analyse en ondelettes des potentiel évoqués auditifs en réponse à des sons des parole (SABR) : Une nouvelle analyse objective de l'encodage sous-cortical des sons de parole voisés et non voisés. In *Congrès de la Société Française d'ORL*. Paris, France.
- Laboissière R** and Yehia HC (2011) Measuring the effects on the vocal tract acoustic transfer function caused by cross-sectional shape approximations. In *9th International Seminar on Speech Production (ISSP'11)*. Montreal, Canada.
- ☆ Loureiro MA, **Laboissière R**, Mota DA, Campolina TAM, and Yehia HC (2011) Evidence for self-other effects and structure-related attentional mechanisms in the primo/secondo performances of clarinetists. In *16th International Congress on Perception and Action*. Ouro Preto, MG, Brazil.
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- Laboissière R** (2010) Catch me if you can (but you caught me when you could not): Automatic control of visual reafereente perturbation in pointing gestures. In *4º Simpósio de Neurociências – UFMG*. Belo Horizonte, Brazil. (in Portuguese).
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- ☆ Priot AE, **Laboissière R**, Prablanc C, and Roumes C (2009) Pointing to a visual binocular target in poor environment: Between and within subjects variations. In *Progress in Motor Control VII*. Marseilles, France.
  - ☆ Laurent D, **Laboissière R**, Priot AE, Prablanc C, and Tiliket C (2008), Visuomotor adaptation without sensory conflict nor sensory alteration. *Perception* 37(supplement): 42. Thirty-first European Conference on Visual Perception Utrecht, The Netherlands 24–28 August 2008.
  - ☆ Priot AE, Roumes C, **Laboissière R**, Laurent D, and Prablanc C (2008), Telestereoscopic viewing within prehension space: Initial effects and short-term visual adaptation. *Perception* 37(supplement): 13. Thirty-first European Conference on Visual Perception Utrecht, The Netherlands 24–28 August 2008.
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  - ☆ **Laboissière R**, Lametti DR, and Ostry DJ (2006c) Stiffness regulation in speech movements. In *5th International Conference on Speech Motor Control*. Nijmegen, Netherlands.

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