

Rafael LABOISSIÈRE's CV

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Personal data

Family name: LABOISSIÈRE

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Date and place of birth: October 15, 1962 in Belo Horizonte, Brazil

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Professional situation

Researcher (CR1) at Centre National de la Recherche Scientifique, France. Hired in October 1992. Currently associated with Laboratory of Psychology and Neurocognition (CNRS UMR5105).

Previous employments

2001 – 2006: Researcher at the Max-Planck Institute for Human Cognitive and Brain Sciences, Munich & Leipzig, Germany. Head of the Junior Research Group “Sensorimotor Coordination”.

1992 – 2001: Researcher at the Institute of Speech Communication, CNRS & INPG, Grenoble, France.

1997 – 1998: Professor at the Department of Telecommunications, Institute of Technology for Aeronautics, São José dos Campos, Brazil

Education

- Ph.D. at Institut National Polytechnique de Grenoble, Signal–Image–Speech. Thesis title: “Preliminaries for Speech Communication Robotics – Inversion and Control of an Articulatory Model of the Vocal Tract”. September 1992.
- DEA at Université Paul Sabatier, Toulouse, Computer Science. June, 1988.
- Electronic Engineer at Instituto Tecnológico de Aeronáutica, São José dos Campos, Brazil. December 1986. Specialization: Signal Processing and Control Theory.

Research Activities

Motor control of human limb and orofacial movements

Speech production and speech motor development

Audiology and speech perception
Central and segmental reflex mechanisms in multi-joint movement

Graduate Students

(The percentage that appears at the end of each item below indicates my participation to the supervision of the cited student.)

- Arturo GALVÁN, Cognitive Sciences, INPG. Subject: “Studies in acoustico-articulatory inversion: Improvement of an articulatory model, speaker normalization and recovering of constriction place for plosives”. April 1997. He is currently professor at the Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico. (100%)
- Ahmed Reda BERRAH, Cognitive Sciences, INPG (cosupervised with Louis-Jean Boë et Pierre BESSIÈRE). Subject: “Evolution of an artificial society of speech agents: A model for the emergence of phonetic structures”. June 1998. He is currently project manager at Capgemini in Paris, France. (80%)
- Solange ROSSATO, Signal–Image–Speech, INPG (cosupervised with Gang FENG). Subject: “Speech inversion: nasal vowels”. December 2000. She is currently maître de conférences at Université Stendhal, in Grenoble, France. (50%)
- Anne HÄBERLE, Max-Planck Gesellschaft scholarship. Subject: “Social cognition and ideomotor movements” (cosupervised with Wolfgang PRINZ), 2006. (50%)
- Maria MENDES CANTONI, Universidade Federal de Minas Gerais (cosupervised with Thaïs CRISTÓFARO-SILVA). Subject: “The accent in Brazilian Portuguese: An experimental approach”. Date of defense: 2013-01-25. She has a professor position at UFMG, Belo Horizonte, Brazil. (30%)
- Kostas KOSTA “Somatosensory development of cochlear implanted children” (cosupervised with Hung THAI-VAN. Foreseen defense date: unknown. He is currently working at Cochlear France, in St.-Aubain, France. (70%)
- Leonardo SILVA DE ALMEIDA “Multimodal speech perception” (cosupervised with Prof. Hani YEHIA, UFMG, Brazil). Foreseen defense date: unknown. He is currently Manager at DVPro, a company in Belo Horizonte, Brazil. (70%)
- Amélie ROCHE-CAPELLAN “De la substance à la forme : rôle des contraintes motrices orofaciales et brachiomotrices de la parole dans l'émergence du langage” (cosupervised with Jean-Luc SCHWARTZ, GIPSA-lab, Grenoble INP). Date of defense: 2007. She has currently a CNRS researcher position. (30%)
- Mélanie CANAULT “L'émergence du contrôle articulatoire au stade du babillage : une étude acoustique et cinématique” (cosupervised with Pascal PERRIER, GIPSA-lab, Grenoble INP, and Rudolph Sock, University of Strasbourg). Date of defense: December 2007. She is currently maître de conférence position at University Lyon (40%)
- Rémi BLANDIN “Theoretical and experimental study of vocal tract acoustics” (cosupervised with Xavier PELOSON, GIPSA-lab, Grenoble INP). Date of defense: 2016-10-27. He is currently post-doc in Sicily, Italy. (30%)
- Davi ALVES MOTA “Multi-modal coupling in musical performance” (cosupervised with Prof. Maurício LOUREIRO, UFMG, Brazil). Defense date: 2017-06-21. He is currently post-doc at the Music School, Federal University of Minas Gerais, Belo Horizonte, Brazil. (50%)

Phd Defense Committees

- João PEDRO SANSÃO, Federal University of Minas Gerais, Dept. Electronics Engineering, Belo Horizonte, Brazil. Qualification: 2016-09-09
- Lucie SCARBEL, École doctorale ingénierie pour la santé, la cognition, l'environnement, University Grenoble Alps. Comité de Suivi de Thèse: 2015-02-23
- Leonardo Carneiro, Federal University of Minas Gerais, Dept. Electronics Engineering, Belo Horizonte, Brazil. Defense date: 2013-10-18
- Zuheng Ming, École doctorale électronique, électrotechnique, automatique, traitement du signal, Grenoble INP. Defense date: 2013-06-24
- Mohammad Ali NAZARI, École doctorale ingénierie pour la santé, la cognition, l'environnement, University Grenoble Alps. Defense date: 2011-09-30
- Kétia SOARES MOREIRA, Federal University of Minas Gerais, Dept. Electronics Engineering, Belo Horizonte, Brazil. Defense date: 2008-05-30.
- Gustavo FERNANDES RODRIGUES, Federal University of Minas Gerais, Dept. Electronics Engineering, Belo Horizonte, Brazil. Defense date: 2008-05-29.
- Hermes AGUIAR MAGALHÃES, Federal University of Minas Gerais, Belo Horizonte, Brazil. Defense date: 2008-05-26.
- Jean-Michel GÉRARD, Signal/Image/Parole, Grenoble INP. Defense date: 2004-12-17

Research Grants

- Grant from Région Rhône-Alpes CMIRA/COOPERA. Title: “Unités représentationnelles en parole : Psycholinguistique, développement et modélisation”. Collaborators: Thaïs CRISTÓFARO-SILVA (UFMG, Brazil) and Adelaide PESCATORI SILVA (UFPR, Brazxil). 2014–2016
- Grant from Projets Exploratoires Premier Soutien (PEPS) Interdisciplinaires – Grenoble. Title: “Neurophysiological representation of phonemic units in speech: Application to the diagnoses of language disorders.” Collaborators: Irène GANNAZ and Bertrand RIVET (GIPSA-lab, Grenoble). 2014
- Grant from Pôle Grenoble Cognition for supporting the M2R internship of Florent CLERC. Project title: “Adaptive procedures for improving the estimation of psychometric responses: Application to a phoneme identification task”. 2013
- Grant from IXXI — Rhône Alpes Complex Systems Institute. Title: “Use of wavelets for thresholding, mixed-effects modelling and the classification of electrophysiological signals: Study of exogenous and endogenous effects of the Speech ABR.” Collaborators: Irène GANNAZ (Institut Camille Jordan, Lyon), Marianne CLAUSEL (Laboratoire Jean Kuntzmann, Grenoble), and Fabien MILLIOZ (Centre de Recherche en Neuroscience de Lyon). 2013
- Grant for visiting professor (“professor catedrático”) de l’IEAT (Instituto de Estudos Avançados Transdisciplinares) of the Federal University of Minas Gerais, Belo Horizonte, Brazil. Visited the University during the months of July and August 2011.
- Grant from “Programmes Exploratoires Pluridisciplinaires (PEPS) Automatique”, CNRS, France. Title: “Exoskeleton and human motor control”. In collaboration with Richard MOREAU and Minh Tu PHAM, Laboratoire Ampère, INSA, Lyon. (2010–2011).
- Grant from DGA (Direction Générale de l’Armement, France) #08c0051 “Real-time psychophysical study of the perception-action loop in natural and artificial interfaces”, in collaboration with Claude PRABLANC (2009–2011).

- Participation in the “Action Concertée” of the CNRS on Complex Systems in Social and Human Sciences. Title: “Pati Papa? Modelling of the Emergence of an Articulated Language in a Society of Sensorimotor agents in Interaction”. Principal investigator: Dr. Jean-Luc SCHWARTZ (2004–2008).
- Consultant work for grant #1R01DC004669-01A2 from the National Institute of Health (USA). Principal Investigator: Prof. David OSTRY. Title: “Sensorimotor Control of Human Jaw Movement” (2002–2007). I developed neurophysiological models of human motor control of the human upper limb.
- Participation to a grant from the National Institutes of Health (USA) (#2R01DC00594-08A2, National Institute on Deafness and Other Communication Disorders). Principal Investigator: Dr. Vincent GRACCO. Title: “Mechanisms of Speech Motor Control” (1999–2002). I developed techniques for measuring jaw stiffness during speech and non-speech movements.
- Grant from CNPq-CNRS binational project (Brazil-France), process #910146/98-5. Title: “Development of a Realistic, Acoustical (and Anthropomorphic) Model of Speech Production.” In collaboration with Prof. Hani YEHIA, Federal University of Minas Gerais, Belo Horizonte. (2000–2002)
- Integrated Action Programme GALILEE. Title: “Models of motor coordination and human-machine dialog” (with Pietro MORASSO, DIST, Genova, Italy). 1994–1995.
- CNRS grant COGNISCIENCE “Motricity and Cognition”, in collaboration with J. PAILHOUS et M. BONNARD, URA 1166, CNRS, Marseille) and Pierre BESSIÈRE, Leibniz-IMAG, Grenoble). 1993.
- ESPRIT BRA Speech MAPS (chairs: Christian ABRY, Pierre BADIN and Celia SCULLY) with 14 european laboratories. Design of the control system of a Speech Robot. 1992–1994.

Visiting Scientists and Post-Doctoral Fellows

- Vittorio SANGINETI (Dipartimento di Informatica, Sistemistica, Telematica — Univ. Genova, Italie), COTRAO (Communauté de Travail des Alpes Occidentales) scolarship: “Geometric aspects and neuronal basis of movement control in speech”, 1995–1996.
- David J. OSTRY (Department of Psychology, McGill University, Montreal Canada), Centre Jacques Cartier grant, 1995.
- Gordon J. RAMSAY (University of Waterloo, OT Canada): European Training and Mobility of Researchers (TMR) scolarship, “Stochastic Modelling of Speech Motor Control”, 1997–1999.
- Francisco VALERO-CUEVAS (Cornell University, Ithaca, NY, USA): Fellowship from the Alexander von Humboldt Foundation, 2006–2007.

Organization of Scientific Meetings

- Co-chair of the *1st ESCA Tutorial and Research Workshop on Speech Production Modeling: From Control Strategies to Acoustics & 4th Speech Production Seminar: Models and Data* (ETRW-SPS). Autrans, France, May 20–24, 1996.
- Program chair of the *7th International Seminar on Speech Production*, Ubatuba, Brazil, December 12–15, 2006.

Editorial Activities

- Review of articles for the following journals: *Psychological Review*, *IEEE Transactions on Speech and Audio Processing*, *Journal of the Acoustical Society of America*, *Journal of Phonetics*, *Experimental Brain Research*, *Journal of Speech, Language, and Hearing Research*, *Laboratory Phonology*.
- Coeditor of a special issue of *Speech Communication* with articles selected from the ETRW-SPS. Publication date: September 1997.
- Member of the Editorial Board of *Motor Control*.

Invited seminars

- Invited lecturer at the Summer School on “Cognitive and physical models of speech production, perception and perception-production interaction” 19th-24th September, 2004. Lubmin (Germany)
- Seminar at the Institut de Phonétique de Strasbourg, Marc Bloch University: “Les interactions sensorimotrices en parole : Effets self/other en reconnaissance et décalage articulatoire en perception catégorielle”, on February 7th, 2006
- Invited lecturer at the École Thématique du CNRS “Imagerie médicale pour l’étude de la parole” at Porquerolles, France: “Dispositifs optoelectroniques pour l’observation périphérique de la parole. Dispositifs de perturbation du mouvement oro-facial”, on October 2000 septembre et le 4 octobre 2008.
- Seminar at LORIA (UMR 7503 CNRS, Univ. of Lorraine and INRIA): “Linking speech production and speech perception”, on November 5th, 2009.
- Seminar at the Laboratoire de Neurosciences Intégratives et Adaptatives (UMR 6149 CNRS, Université de Provence): “Self-other effects on lip reading”, on March 9th, 2009.
- Seminar at the laboratory Dynamique du Langage (UMR 5596 CNRS, Univ. Lyon 2): “Les interactions sensorimotrices en parole”, on February 15th, 2013.

Refereed journal articles

(In this section and in the following ones, the \star 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 Baciu 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, Beaumtemps 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.
- Beaumtemps D, Badin P, and **Laboissière R** (1995), Deriving vocal-tract area functions from midsagittal profiles and formant frequencies: A new model for vowels and fricative consonants based on experimental data. *Speech Comm* 16(1): 27–47.
- ☆ 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**, Veuillet 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.
- Häberle A, **Laboissière R**, and Prinz W (2005) Intentional ideomotor movements. In Hommel B, Band G, La Heij W, and Wolters G (Editors), *Proceedings of the XIVth Meeting of the European Society for Cognitive Psychology*, page 63. Leiden, the Netherlands.
- ☆ Galván-Rodriguez A and **Laboissière R** (2003) Speaker normalization using an articulatory model. In *Proceedings of the XIIIth International Congress on Phonetic Sciences*, page 1325–1328. Barcelona, Spain.
- ☆ **Laboissière R**, Shiller DM, and Ostry D (2001) Estimating jaw mechanical properties during speech movements. In *Proceedings of the First International Symposium on Measurement, Analysis and Modeling of Human Functions*, page 384–388. Sapporo, Japan.
- ☆ 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.
- Abry C, **Laboissière R**, Loevenbruck H, Cathiard MA, and Schwartz JL (2000) Glide production and control in the two-component vowel model. In *Proceedings of the 5th Speech Production Seminar: Models and Data*, page 37–40. Kloster Seeon, Germany.
- Boë L, Abry C, Beautemps D, Schwartz JL, and **Laboissière R** (2000) Les sosies vocaliques : Inversion et focalisation. In *Actes des XXIII^{èmes} Journées d'Étude sur la Parole*, page 257–260. Aussois, France.
- Laboissière R** and Boë L (2000) A new heuristics for exploring the maximal acoustic space for vowels. In *Proceedings of the 5th Speech Production Seminar: Models and Data*, page 269–272. Kloster Seeon, Germany.
- Pelorsor X, Motoki K, and **Laboissière R** (2000) Contribution à l'analyse acoustique du conduit vocal. In *Actes des XXIII^{èmes} Journées d'Étude sur la Parole*, page 129–132. Aussois, France.
- Ramsay G and **Laboissière R** (2000) Statistical modelling of speech motor control: A stochastic myocysternetic model of the jaw/hyoid/larynx complex. In *SPSV*, page 165–168. Kloster Seeon, Germany.
- ☆ 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.
- ☆ Raúl 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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