

BENJAMIN O'BRIEN, PhD

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EDUCATION

Master of Engineering in Acoustics, Aix-Marseille University, Marseille, France	Sep. 2016 - 2017
PhD in Music Composition, University of Florida, Gainesville, FL	Fall 2010 - Summer 2015
Master of Arts in Music Composition, Mills College, Oakland, CA	Fall 2007 - Spring 2009
Bachelor of Arts in Mathematics, University of Virginia, Charlottesville, VA	Fall 2002 - Spring 2006

PROFESSIONAL SERVICE

Researcher engineer (ANR-23-CE23-0018), Laboratoire Informatique d'Avignon	Apr. 2022 - Present
Post-doctorate (ANR-17-CE39-0016), Laboratoire Parole et Langage	Jan. 2020 - Mar. 2022
Sound design instructor, Les Ateliers de l'Image et du Son - École supérieure, Marseille	Nov. 2016 - Jun. 2021
Research engineer (La société Protisvalor Méditerranée), Institute des Sciences du Mouvement	Apr. - Nov. 2019
Research engineer (ANR-14-CE24-0018), Institute des Sciences du Mouvement	Oct. 2017 - Dec. 2018
Doctoral Fellow, University of Florida	Fall 2010 - Spring 2015
Graduate Assistant, Mills College	Fall 2008 - Spring 2009

SKILLS

Digital signal processing : acoustic, ECG, fNIRS, kinematic
Programming Languages : C/C++, JavaScript, Matlab, Python, R, Unix
Audio Processing : Kaldi, Logic Pro, Max/MSP, Praat, Speech Brain, SuperCollider
Motion capture systems : CodaMotion, Qualysis, Rotor
Languages : English (native), French (bilingual)

ARTICLES

- Mazzocconi C, **O'Brien B**, Bodur K et al. (review) Do children laugh like their parents? Conversational laughter mimicry occurrence and acoustic alignment in middle-childhood, *Dev Sci*
- O'Brien B**, Meunier C, Ghio A. (revision) Evaluating the effects of continuous pitch and speech tempo modifications on perceptual speaker verification performances by familiar and unfamiliar listeners, *Speech Comm*
- O'Brien B**, Meunier C, Tomashenko N, et al. (2023) Evaluating the effects of task design on unfamiliar Francophone listener and automatic speaker identification performance, *Multimedia Tools & Applications*
- Marczyk A, **O'Brien B***, Tremblay P, et al. (2022) Correlates of vowel clarity in the spectrotemporal modulation domain: Application to speech impairment evaluation, *JASA*, 152 (5): 2675-2291
- O'Brien B**, Hardouin R, Rao G, et al. (2020) Online sonification improves cycling performance through kinematic and muscular reorganisations, *Scientific Reports* 10(20929): 1-12
- O'Brien B**, Juhas B, Bieńkiewicz M, Bourdin C. (2020) Revisiting the Nesbit and McGinnis Optimisation Model of the Golf Swing Hub Path, *J Sports Med Phys Fitness* 60(8): 1089-1100.
- O'Brien B**, Juhas B, Bieńkiewicz M., et al. (2020) Online sonification for golf putting gesture: reduced variability of motor behaviour and perceptual judgement. *Exp Brain Res*: 1-14.
- O'Brien B**, Juhas B, Bieńkiewicz M, et al. (2020) Sonification of golf putting gesture reduces movement variability in novices, *RQES*: 1-10

RECENT CONFERENCE PROCEEDINGS

- Duret J, **O'Brien B**, Esteve Y, et al. (2023) Enhancing Expressivity Transfer in Textless Speech-to-Speech Translation, *Proc. IEEE Workshop on Automatic Speech Recognition and Understanding 2023*
- Mazzocconi C, **O'Brien B**, Chaminade, T. (2023) How do you laugh in an fMRI scanner? Laughter distribution, mimicry and acoustic analysis. *Proc. Disfluency in Spontaneous Speech (DiSS) Workshop 2023*, 43-47
- O'Brien B**, Greese, A, Billaud, J-B, et al. (2023) Differentiating acoustic and physiological features in speech for hypoxia detection, *Proc. Interspeech 2023*, 5013-5017
- Ben-Amor I, Bonastre J-F, **O'Brien B**, et al. (2023) Describing the phonetics in the underlying speech attributes for deep and interpretable speaker recognition, *Proc. of Interspeech 2023*, 3207-3211
- Mazzocconi C, **O'Brien B***, El Haddad K, et al. (2023) Differences between Mimicking and Non-Mimicking laughter in Child-Caregiver Conversation: A Distributional and Acoustic Analysis, *CogSci Society Conference*

* Shared first author