

BENJAMIN O'BRIEN, PhD

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EDUCATION

Master of Engineering in Acoustics, Aix-Marseille University (AMU), 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
Study Abroad, University of Edinburgh, Scotland, UK (Fall 2004 - Spring 2005)

PROFESSIONAL SERVICE

Post-doctorale researcher (ANR-17-CE39-0016), Laboratory of Speech and Language, CNRS Jan. 2020 - Present
Sound design instructor, Les Ateliers de l'Image et du Son - École supérieure, Marseille Nov. 2016 - Present
Research engineer (La société Protisvalor Méditerranée), Institute for Movement Sciences, AMU Apr. - Nov. 2019
Research engineer (ANR-14-CE24-0018), Institute for Movement Sciences, AMU Oct. 2017 - Dec. 2018
Doctoral Fellow, University of Florida Fall 2010 - Spring 2015
Graduate Assistant, Mills College Fall 2008 - Spring 2009

COMPUTER SKILLS

Programming Languages : C, Matlab, Python, R, JavaScript, Unix
Audio Applications & Programming : Max/MSP, SuperCollider, Praat, Logic Pro, Kaldi
Motion capture systems : Qualysis, CodaMotion

ARTICLES & CHAPTERS

O'Brien B, Hardouin R, Rao G, Bertin D, Bourdin C. (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
O'Brien B, Juhas B, Bieńkiewicz M, et al. (2018) Considerations for Developing Sound in Golf Putting Experiments. In *Post-proceedings of CMMR 2017 - Music Technology with Swing*, eds. M. Aramaki et al. LNCS 11265, 338-358
O'Brien B (2016) Sample Sharing: Virtual Laptop Ensemble Communities. In *The Oxford Handbook of Music and Virtuality*, eds. Shara Rambarran & Sheila Whiteley. New York: Oxford University Press

RECENT PRESENTATIONS

Marczyk A, **O'Brien B**, Ghio A, et al. "Evaluation de la qualité vocalique à partir de l'analyse du signal modulé : validation de construit," *9èmes Journées de Phonétique Clinique*, l'Université Toulouse (27.05.21)
O'Brien B, Ghio A, Fredouille C, et al. "Discriminating speakers using perceptual clustering interface," *Associazione Italiana Scienze della Voce 2021*, Zurich, CH (04.02.21)
Marczyk A, **O'Brien B** "Speech characterization with magnitude power spectrum: Clinical implications and beyond", Centre de recherche CERVO, Québec, CA (07.12.20)
Santos-Santos M-A, Marczyk A, **O'Brien B**, et al. "Evaluación del trastorno del habla mediante et análisis de la modulación espectrot temporal del habla (MPS): Utilidad para el diagnóstico en la afasia neurodegenerativa," *Reunión anual de la Sociedad española de neurología*, Sevilla, ES (23.11.20)
Chanclu A, **O'Brien B**. "Subjective Evaluation-2 Linkability," *VoicePrivacy 2020 Virtual Workshop at Odyssey 2020*, Tokyo, JP (04.11.20)
O'Brien B, Bourdin C. "Developing movement sonification for sports performance: A survey of studies developed at ISM," *Interactive Sonification Workshop*, Stockholm, SE (18.11.19)
O'Brien B, Bourdin C. "Pedal stroke sonification" application demonstration, *80 ans de CNRS*, Paris, FR (18.10.19)