

## 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-doctorate Fellow (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  
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* (accepted : Oct. 24)  
**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 CONFERENCE PRESENTATIONS

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* (23/11)  
Chanclu A, **O'Brien B**. "Subjective Evaluation-2 Linkability," *VoicePrivacy 2020 Virtual Workshop at Odyssey 2020*, Tokyo, JP (04/11)  
**O'Brien B**, Bourdin C. "Developing movement sonification for sports performance: A survey of studies developed at ISM, *Interactive Sonification Workshop*, Stockholm, SE (Nov. 2019)  
**O'Brien B**. "Considerations for Developing Sound in Golf Putting Experiments," *Journées des Jeunes Chercheurs en Audition, Acoustique Musicale et Signal Audio*, Brest, FR (June 2018)  
Bieńkiewicz M, **O'Brien B**, Bourdin, C. "The pitfalls of being a COPYCAT: Learning golf putting through acoustic and visual guidance," *Symposium on Computer Music Multidisciplinary Research*, Porto, PT (Sep. 2017)  
Rambarran S, **O'Brien B**, et al. "Oxford Handbook of Music & Virtuality" Book Panel, *Art of Record Production Conference*, Aalborg University (Dec. 2016)  
**O'Brien B** "Inscribing Sound Forms," *Journées d'Informatique Musicale*, Albi, FR (Apr. 2016)