

## 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-doctorat (ANR-17-CE39-0016), Laboratory of Speech and Language, CNRS Jan. 2020 - Present  
Research engineer (La société Protisvalor Méditerranée), Institute for Movement Sciences, AMU Apr. - Nov. 2019  
Sound design instructor, Les Ateliers de l'Image et du Son - École supérieure, Marseille Nov. 2016 - Dec. 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  
Operating Systems : Linux, OS, Windows

### RECENT PUBLICATIONS

**O'Brien, B.**, Juhas, B., Bienkiewicz, M., Bourdin, C. (2020) Revisiting the Nesbit and McGinnis Optimisation Model of the Golf Swing Hub Path, *J Sports Med Phys Fitness* (accepted)  
**O'Brien, B.**, Juhas, B., Bienkiewicz, 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., Bienkiewicz, M., et al. (2020) Sonification of golf putting gesture reduces movement variability in novices, *RQES*: 1-10  
**O'Brien, B.**, Vidal A., Bringoux, L., Bourdin, C. (2019) Developing movement sonification for sports performance: A survey of studies developed at the Institute of Movement Science. In *Proceed. Interactive Sonification Workshop*, KTH Royal Institute of Technology, Stockholm  
**O'Brien, B.**, Juhas, B., Bienkiewicz, 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 RESEARCH PRESENTATIONS

"Developing movement sonification for sports performance: A survey of studies developed at ISM, Interactive Sonification Workshop, Stockholm, SE (Nov. 2019)  
"An Approach to Musical Form & Content," Vienna Summer Music Festival, Vienna, AT (June 2018)  
"Considerations for Developing Sound in Golf Putting Experiments," Journées des Jeunes Chercheurs en Audition, Acoustique Musicale et Signal Audio, Brest, FR (June 2018)  
"The pitfalls of being a COPYCAT: Learning golf putting through acoustic and visual guidance," Symposium on Computer Music Multidisciplinary Research, Porto, PT (Sep. 2017)  
"Oxford Handbook of Music & Virtuality" Book Panel, Art of Record Production Conference, Aalborg University (Dec. 2016)  
"Inscribing Sound Forms," Journées d'Informatique Musicale, Albi, France: Centre National de Création Musicale d'Albi-Tarn (Apr. 2016)  
"From Instrument to Controller," 4e Journée des Jeunes Chercheurs du GREAM, Strasbourg, FR (Mar. 2016)