

## BENJAMIN O'BRIEN, PhD

benjamin [dot] m [dot] obrien [at] gmail [dot] com || <http://benjaminobrien.net>

### EDUCATION

<b>Master of Engineering</b> in Acoustics, Aix-Marseille University, Marseille, France	Sep. 2016 - 2017
<b>PhD</b> in Music Composition, University of Florida, Gainesville, FL	Fall 2010 - Summer 2015
<b>Master of Arts</b> in Music Composition, Mills College, Oakland, CA	Fall 2007 - Spring 2009
<b>Bachelor of Arts</b> 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 researcher (ANR-18-CE23-0018), Laboratoire Informatique d'Avignon	Apr. 2022 - Present
Post-doctorate researcher (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

### COMPUTER SKILLS

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

### ARTICLES

- Marczyk A, **O'Brien B**<sup>1</sup>, Tremblay P, et al. (2022) Correlates of vowel clarity in the spectrotemporal modulation domain: Application to speech impairment evaluation, *Journal of the Acoustical Society of America*, 152 (5)
- Tomashenko N, Wang X, Vincent E, et al. (2022) The VoicePrivacy Challenge: Results and findings, *Computer Speech and Language* 74(2-3): 101362
- 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 CHAPTERS & PROCEEDINGS

- O'Brien B**, Meunier C, Ghio A. (2022) Evaluating the effects of modified speech on perceptual speaker identification performance. *Proc. Interspeech 2022*, 3073-3077
- O'Brien B**, Meunier C, Ghio A, et al. (2022) Discriminating speakers using perceptual clustering interface, *Studi Aisv* 8: 97-111
- O'Brien B**, Tomashenko N, Chanclu A, Bonastre, J.-F. (2021) Anonymous Speaker Clusters: Making Distinctions Between Anonymised Speech Recordings with Clustering Interface, *Proc. Interspeech 2021*, 3580-3584
- O'Brien B**, Meunier C, Ghio A. (2021) Presentation Matters: Evaluating Speaker Identification Tasks. *Proc. Interspeech 2021*, 4623-4627
- 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, *Proc. Interactive Sonification Workshop*, KTH Royal Institute of Technology, Stockholm
- O'Brien B**, Juhas B, Bieńkiewicz M, et al. (2018) Considerations for Developing Sound in Golf Putting Experiments, *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, *The Oxford Handbook of Music and Virtuality*, eds. Shara Rambarran & Sheila Whiteley. New York: Oxford University Press, 377-391

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<sup>1</sup>Shared first author