

David John Baker

- EDUCATION** **Louisiana State University**, Baton Rouge, LA
Doctor of Philosophy, Music Theory, in progress
Goldsmiths, University of London, London, England
Master of Science, Music, Mind and Brain, February 2014
Baldwin Wallace Conservatory of Music, Cleveland, OH
Bachelor of Music, Instrumental Performance, May 2012
- PROJECTS** **Perception of Musical Structure:** Main focus of academic research; explores how individual and musical parameters can be used to model musical perception. Research on leitmotives has been presented at various conferences, current research's abstract accepted for *Frontiers in Psychology* special issue how research from music infomatics can better inform research on perception.
- Mapping Brand Personality to Emotion:** Developed a tool for SliceThePie .com to measure and map emotional judgments of music to brand personality; tool is currently being used by Soundout. Details published in proceedings of 14th ICMPC.
- Music, Brands, and Advertising: Testing What Works:** Co-presented with Dr. Daniel Müllensiefen at 2015 Audio Branding Academy Conference in Berlin. Topics discussed included using tools to bridge gap between creative and empirically minded team members, theories of music in advertising, and using physiological measures in brand research. Details published in ABA 2015 Yearbook.
- Physiological Responses to Richard Wagner:** Project explored how listeners respond physiologically (EDA, HR, memory measures) to music in both controlled (lab) and ecologically valid (concert hall) settings. Results of experiment currently being analyzed.
- COMPUTATION** **Statistical Analysis:** t-tests, Regression, Multiple Regression, Logistic Regression, Correlation, ANOVA, Factor Analysis, Principal Component Analysis, Q Methodology, Item Response Theory, Signal Detection (d'), Chi Squared, Random Forest, k-means
Languages: R, bash, Max/MSP.
Applications: Vi/Vim, Git, Github , Humdrum, Sonic Visualizer, Audacity, Ledalab (Matlab for EDA)
- PROFESSIONAL** **Research Positions**
- Research Assistant, Music Cognition + Computation Lab, LSU Current
 - Visiting PhD Student, Queen Mary, University of London July– August 2016
 - Visiting PhD Student, Goldsmiths, University of London June 2016
 - Research Assistant, Transforming Musicology Autumn 2014 – Spring 2016
- Teaching**
- Instructor of Record for **Foundations of Music** Freshman Intro to Theory Course
 - Instructor of Record for **Aural Skills III, IV** Sophomore Aural Lab
- REFERENCES** Dr Dan Shanahan , Assistant Professor of Music Theory, Louisiana State University
Dr Daniel Müllensiefen , Reader in Psychology, Goldsmiths, University of London

PUBLICATIONS

- Müllensiefen, D., **Baker, D.**, Rhodes, C., Crawford, T., Dreyfus, L. (2016). Recognition of leitmotives in Richard Wagner's music: chroma distance and listener expertise. In Springer (Ed.) *Analysis of Large and Complex Data*. [Book Chapter]
- **Baker, D.**, Trahan, T., Müllensiefen, D. (2016) Measuring Music To Brand Personality: A Semantic Differential Tool for Measuring Emotional Space. Proceedings of 2016 International Conference on Music Perception and Cognition. [Conference Proceedings Paper]
- **Baker, D.**, Rosado, A, Shanahan, E., Shanahan, D. (2016) The Interaction of Schema-Driven Gestures and Instrumental Affordances in Bebop Improvisations. Proceedings of 2016 International Conference on Music Perception and Cognition. [Conference Proceedings Paper]
- Blust, A., **Baker, D.**, Richard, K., Shanahan, D. (2016) Music, Animacy, and Rubato: What makes music sound human? Proceedings of 2016 International Conference on Music Perception and Cognition. [Conference Proceedings Paper]
- **Baker, D.**, (2015) "Unlocking the Mysteries of Your Brain, Dr. Daniel Levitin Public Lecture", in *Psychomusicology: Music, Mind, and Brain*, Vol 25, No.4, pp. 455-456. [Public Lecture Review]
- **Baker, D.**, Rindfleisch, C., Müllensiefen, D. (2015) Parsifal and the effect of narrative on unconscious arousal. Proceedings of 2015 European Society of Cognitive Sciences of Music. [Conference Proceedings Paper]
- Müllensiefen, D., **Baker, D.** (2015) Music in Advertising: Testing What Works (2015) Audio Branding Academy Yearbook 2015. [Article in Yearbook]
- Müllensiefen, **Baker, D.**, D., Lewis, R., Rhodes, C., Fields, B., and Crawford, T. (2014) Multi-modal Musical Performance Capture. In: *Digital Music Research Network (DRM+9)*. London, United Kingdom. [Conference/Workshop Item]

SELECT PRESENTATIONS

- Ventura, J., Elliott, E., **Baker, D.**, & Shanahan, D. (November, 2016). Investigating the Relationship between Musical Working Memory and Musical Sophistication in Non-Musicians. Poster to be presented at the 57th Annual Meeting of the Psychonomic Society in Boston, MA.
- **Baker, D.**, Müllensiefen, D. (2016) Perception of Leitmotives in Richard Wagner's *Der Ring des Nibelungen*. Proceedings of 2016 International Conference on Music Perception and Cognition. [Short Format Talk]
- **Baker, D.**, Trahan, T., Müllensiefen, D. (2016) Measuring Music To Brand Personality: A Semantic Differential Tool for Measuring Emotional Space. International Conference on Music Perception and Cognition. [Poster Presentation]
- **Baker, D.**, Müllensiefen, D. (2016) Hearing Wagner: Physiological Responses to Richard Wagner's *Der Ring des Nibelungen*. Proceedings of 2016 International Conference on Music Perception and Cognition. [Poster Presentation]
- Müllensiefen, D., **Baker, D.** (2015) Music in Advertising: Testing What Works. Presentation given at Audio Branding Academy 2015 (ABA) 2015, Berlin, Germany, 27th of May. [Industry Workshop]