DR. SCOTT BEVERIDGE BSC(HONS) PGC LTHE

Scientist and educator with over 15 years experience in the fields of audio and performance science. Highly skilled in the design, development, and delivery of educational programs. Established interdisciplinary publication record. Proven track record in research project acquisition and management.

SKILLS

Programming	
Matlab	
Python	
R	
C#	
Javascript	
LaTeX	
Visual programming	
MaxMSP/PureData	
Processing	
Blender	
Unity	
SketchUp	
Software & Tools	
Visualisation	
(e.g. matplotlib,)	
Data handling/analysis	
(e.g. numpy, scipy, pandas, .)
Adobe	
(Photoshop, Illustrator, Pren	niere)

Languages

English	Native
Español	Intermediate (Nivel 8, DELE B1)
	Universidad EAFIT, Medellín, Colombia.

EDUCATION

2016	Postgraduate Diploma (PgC) Learning and Teaching in Higher Education Glasgow Caledonian University, Glasgow, Scotland
2011	Doctorate (Ph.D) Music Informatics and Psychology Glasgow Caledonian University, Glasgow, Scotland
2007	Undergraduate (B.Sc Hons) Audio Technology with Electronics (Classification: First Class) Glasgow Caledonian University, Glasgow, Scotland
2005	Diploma (HND) Music Technology (Classification: Merit) Stow College, Glasgow, Scotland
1999 - 1997	Undergraduate Physics and Mathematics

7 Physics and Mathematics University of Glasgow, Glasgow, Scotland

PROFESSIONAL EXPERIENCE

2019 - Present	Senior Scientist Songquito UG Erlangen, Germany
Responsibilities	Design and development of music education games.Disseminate research project findings.
2016 - Present	Scientist Institute of Musicians' Medicine, Dresden University of Music, Carl Maria von Weber Dresden, Germany
Responsibilities	 Management of research studies. Maintain and operate hardware systems for measuring biosignals (including Qualisys motion capture system and Noraxon Surface Electromyography system.) Design and built airflow sensors for the study of vibrato in wind players. Design and develop biofeedback systems for practising musicians. Data analysis of biosignals (including feature design and extraction). Supervise junior research staff.
2018 - 2021	Scientist II Agency for Science, Technology and Research (A*STAR) Singapore
Responsibilities	 Design and perform research studies in the context of stroke rehabilitation. Design and implementation of software tool for the collection and analysis of eating behaviour data (using accelerometer, gyroscope, and acoustic sensors).

	 Data analysis for industrial audio classification (motor fault detection). Data analysis for eating behaviour classification. Development of a music-based rhythm video game for stroke rehabilitation.
2012 - 2016	Professor
	Glasgow Caledonian University
	Glasgow, Scotland
Responsibilities	 Designed and delivered multiple programs at all undergraduate levels.
	• Undergraduate (B.Sc) and postgraduate (M.Sc/P.hD) student supervision.
	 Responsible for > 300 students annually.
2011 - 2012	Research Fellow Fraunhofer Institute for Digital Media Technology IDMT Ilmenau, Germany
Responsibilities	 Developed automatic emotion recognition systems for music.
	 Supervision of junior research staff.

TEACHING RECORD

Courses developed and delivered:

- Introduction to Audio Systems (Undergraduate Year 1).
- Advanced Games Sound Design (Undergraduate Year 4).
- Audio and Interactivity (Undergraduate Year 3).
- Games Sound Design (Undergraduate Year 3)
- Integrated Project (Undergraduate Year 1)

Courses delivered:

- Visual Software Development (Undergraduate Year 3).
- Audio Processing and Effects (Undergraduate Year 3).
- Audio Analysis and Assessment (Undergraduate Year 3).
- Visual Software Development (Undergraduate Year 3).
- Project and Research Methods (Undergraduate Year 3).
- Software Processes and Practices (Undergraduate Year 3).
- Project Supervision (Undergraduate Year 4).

PUBLICATIONS

- Madden, G.B., Herff, S.A., Beveridge, S., & Jabusch, H.C., (2022), 'Trait-dependent and trait-consistent affect regulation in musical practice', Psychology and Music Interdisciplinary Encounters, October 26-29, 2022, Belgrade, Serbia.
- Beveridge, S., Cano, E., & Herff, S. A., (2021) 'The effect of low frequency equalisation on preference and sensorimotor synchronisation in music', *Quarterly Journal of Experimental Psychology*, **75**(3), 475-490.
- Buck, B., Beveridge, S., Madden, G.B., & Jabusch, H.C., (2021), 'Effect of expertise on performance quality in a unimanual unaccented drumming task', *Motor Control*, **25**(4), 1-36.
- Beveridge, S., Cano, E. & Herff, S. A. (2021), 'No one-size-fits-all: The influence of low-frequency equalisation on preference and sensorimotor synchronisation in music', Poster at the 16th International Conference on Music Perception and Cognition (ICMPC), Sheffield, UK.
- Beveridge, S., Buck, B., Herff, S. A., Madden, G.B., & Jabusch, H.C., (2020), 'Expertise-related differences in wrist muscle co-contraction in drummers', *Frontiers in Psychology*, 11:1360.
- Beveridge, S., Cano. E., & Herff, S.A., (2020), 'Degradation effects of water immersion on earbud audio quality', Audio Engineering Society Convention 149. Audio Engineering Society, October 21-24, 2020, New York City, NY, USA.
- Buck, B., Beveridge, S., Madden, G.B., & Jabusch, H.C., (2019), 'Expertise-related motion patterns and performance precision in unaccented drumming', DGfMM symposium, 15-16 November, 2019, Dresden, Germany.
- Cano. E., & Beveridge, S. (2019), 'Microtiming analysis in traditional Shetland Fiddle music', 20th International Society for Music Information Retrieval Conference (ISMIR). November 4-9, 2019, Delft, The Netherlands.
- Buck, B., Madden, G.B., Beveridge, S., & Jabusch, H.C., (2019), 'The relationship between motion patterns, performance precision, and expertise in single-handed drumming task', Society for Music Perception and Cognition. August 5-7, 2019, New York City, NY, USA.
- Jabusch, H.C., Beveridge, S., Madden, G.B., & Buck. B., (2019), 'Forearm muscle co-contraction in drummers and its relation to expertise, tempo, and performer precision', International Symposium on Performance Science. July 16-20, 2019, Melbourne, Australia.
- Beveridge, S., Cano. E., & Agres, K., (2018), 'Rhythmic entrainment for hand rehabilitation using the Leap Motion controller', Latebreaking demo in 19th International Society for Music Information Retrieval Conference (ISMIR). September 23-27, 2018, Paris, France.
- Beveridge, S., Buck. B., & Jabusch, H.C., (2018), 'Expertise-related differences in forearm muscle cocontraction in drummers', 2nd International Congress on Musicians Physiotherapy. September 06-08, 2018, Osnabrück, Germany.
- Buck. B., Beveridge, S., & Jabusch, H.C., (2018), 'Expertise-related movement patterns in drumming', 2nd International Congress on Musicians Physiotherapy. September 06-08, 2018, Osnabrück, Germany.
- Beveridge, & S. Knox, D. (2017), 'Popular music and the role of vocal melody in perceived emotion', Psychology of Music, 46(3), 411-423.
- Beveridge, S. (2017), 'Standing Still on the Dancefloor: Emotion, Movement, and Electronic Dance Music', CTM Festival. January 27 February 05, 2017, Berlin, Germany.
- Beveridge, S., Cano, E. & Gibson, R. (2014), 'Performer profiling as a method of examining the transmission of traditional Scottish music', 4th International Workshop on Folk Music Analysis. June 12-13, 2014, Istanbul, Turkey.
- Beveridge, S. (2014), 'From Faraday to Fourier: teaching audio technology fundamentals using loudspeaker design', Audio Engineering Society Convention 136. April 26-29, 2014, Berlin, Germany.
- Beveridge, S. (2013), 'Emotion Recognition in Western Contemporary Music', Psychomusicology: Music, Mind & Brain 23(1).
- Beveridge, S. (2012), 'A novel approach for time-continuous tension prediction in film soundtracks', in Proceedings of Audio Mostly 2012, 7th Conference on Interaction with Sound, September 26-28, 2012, Corfu, Greece.
- Beveridge, S. & Knox, D. (2012), 'A feature survey for emotion classification of Western popular music', Presentation at the 9th International International Symposium on Computer Music Modelling and Retrieval, June 19 - 22, Queen Mary University of London, UK.
- Beveridge, S. & Knox, D. (2012), 'Emotion recognition in Western popular music: The role of melodic structure', Presentation at the 12th International Conference on Music Perception and Cognition, July 23-28, Thessaloniki, Greece.
- Knox, D., Beveridge, S., Mitchell, L. A. & Macdonald, R. (2011), 'Acoustic analysis and mood classification of pain-relieving music', *Journal* of the Acoustical Society of America, **130**(3), 1–10.
- Beveridge, S. & Knox, D. (2011), 'Emotion classification in popular music: An interdisciplinary approach', Presentation at the 10th Digital Music Research Network Workshop, December 22, 2011, Queen Mary University of London, UK.

- Beveridge, S. & Knox, D. (2010), 'Emotion classification of western contemporary music: identifying a representative feature set', Poster presentation at the 11th International Conference on Music Perception and Cognition, July 23-28, 2010, Seattle, US.
- Beveridge, S. & Knox, D. (2009), 'An exploration of the effect of structural and acoustical features on perceived musical emotion', in Proceedings of Audio Mostly 2009, 4th International Conference on Interaction with Sound, September 02-03, 2009, Glasgow Caledonian University, Scotland.
- Knox, D., Cassidy, G., Beveridge, S. & Macdonald, R. (2008), 'Music emotion classification by audio signal analysis: Analysis of selfselected music during game play', in Proceedings of the 10th International Conference on Music Perception and Cognition, 25-29 August 2008, Sapporo, Japan.
- Beveridge, S. & Knox, D. (2008), 'A Reflexive Audio Environment Using Genetic Algorithms', in Proceedings of ARTECH 2008 4th International Conference on Digital Arts 7, November 08, Portuguese Catholic University Porto. In ARTECH 2008 Proceedings (ISBN: 978-989-95776-3-3)'.
- Beveridge, S. & Knox, D. (2008), 'Control of Sound Environment using Genetic Algorithms', in Proceedings of Audio Mostly 2008, 3rd Conference on Interaction with Sound. October 22-23 2008, Lulea University of Technology, Pitea, Sweden.