

Tim Metcalfe

☎ (+44) 7817638621 | ✉ tmetcalfe1@sheffield.ac.uk

Education

Ph.D. Music, The University of Sheffield, U.K.

Sheffield, U.K.

THESIS: 'PERCEPTION OF SPEECH, MUSIC AND EMOTION BY HEARING-IMPAIRED LISTENERS'

Sep. 2014 - Present

M.A. Psychology of Music (Distinction), The University of Sheffield, U.K.

Sheffield, U.K.

Sep. 2013 - Aug. 2014

B.Sc. Psychology (1st Class Hons. with Distinction), The University of York, U.K.

York, U.K.

Sep. 2010 - Jul. 2013

Publications

Peer-reviewed journal articles

- Metcalfe, T., Brown, G., & Timmers, R. (2017). Perception of emotive speech by cochlear implant-simulated listeners, *Manuscript in preparation*.
- Tzanaki, P., Metcalfe, T. & Céspedes-Guevara, J. (2017). Effects of music liking and valence on compliance with a request to harm another, *Manuscript in preparation*.
- Metcalfe, T. (2016). The contribution of different musical variables to the effect of background music on motor behavior, *Psychomusicology: Music, Mind, and Brain*, 26(2), 132-138.
- Savill, N., Metcalfe, T., Ellis, A. W., & Jefferies, E. (2015). Semantic categorisation of a word supports its phonological integrity in verbal short-term memory. *Journal of Memory and Language*, 84, 128-138.

Conference presentations & talks

- Metcalfe, T. (2016). Perception of emotion in music in cochlear implant-simulated listening. *Poster presented at the Music & Cochlear Implants Symposium*, Snekersten, Denmark.
- Metcalfe, T. (2016). Towards an objective measurement of music perception in aided listening. *Postgraduate study day*, The University of Sheffield, UK.
- Metcalfe, T., Xu, J., Fitz, K., & Galster, J. (2016). Objective measurement of the impact of across-signal modulation coherence on music perception in hearing impaired listeners. *Poster presented at the International Hearing Aid Research Conference (IHCON)*, Tahoe City, California, USA.
- Metcalfe, T. (December 2015). Perception of emotion in speech and music in normally-hearing listeners with and without cochlear implant simulation. *Postgraduate study day*, The University of Sheffield, UK.
- Metcalfe, T. (2015) Assessing the contribution of different musical variables to the effect of background music on motor behaviour. *International Conference on the Multimodal Experience of Music*, Sheffield, UK
- Savill, N., Metcalfe, T., & Jefferies, E. (2012, December). Semantic task context benefits phonemic ordering in STM. *Annual meeting of Greater Yorkshire Memory*, York, UK.

Public engagement

- Metcalfe, T. (2016, May). Emotion perception in cochlear implant users: Insights from machine learning. *Festival of The Arts & Humanities*, The University of Sheffield, United Kingdom

Experience

The University of Sheffield

Sheffield, UK

RESEARCH ASSISTANT

Mar. 2017 - Apr. 2017

- Provided assistance to the Head of Department, producing various data visualisations and exploratory statistical analyses as part of a large quantitative questionnaire project

Starkey Hearing Technologies

Eden Prairie, MN, USA

AUDIOLOGY RESEARCH INTERN

Jun. 2016 - Aug. 2016

- Worked with a small team to design and run an experiment examining different amplification methods for music perception in hearing-impaired listeners
- Developed test software in MATLAB, using an adaptive procedure to estimate psychometric thresholds

The University of York

York, UK

RESEARCH ASSISTANT

Oct. 2011 - Sep. 2013

- Helped design and run a series of experiments related to verbal short-term memory
- Prepared stimuli, controlled stimulus presentation with E-Prime, and transcribed, coded and analysed data
- Tested participants for various ongoing projects, including behavioural, survey, and transcranial direct current stimulation studies

Teaching

B.A. Music

MUS 129

INTRODUCTION TO PSYCHOLOGY OF MUSIC

2016

- Planned and delivered a session exploring expression and perception of emotion in music
- Assisted with a session on interpreting and analysing empirical research

M.A. Psychology of Music

MUS 619/600

QUANTITATIVE RESEARCH TECHNIQUES

2016

- Planned and delivered twelve lectures, coordinated a group research project, and marked written assessments
- Covered fundamentals of experimental design and use of statistical methods in empirical research, including linear regression, ANOVA etc.

M.A. Psychology of Music

MUS 619/600

QUANTITATIVE RESEARCH TECHNIQUES

2017

- Proposed, planned and delivered two new sessions for the module, covering the fundamentals of Bayesian statistics, and an introduction to statistical analysis with R

Multiple M.A. programmes

MUS 6000

RESEARCH TECHNIQUES

2016-2017

- Proposed, planned and delivered a distributed seminar series, entitled 'Software skills for research'
- Covered the use of software for collection, processing, analysis and visualisation of data, primarily using R and Python

Other Qualifications & Awards

QUALIFICATIONS

2016 **Stanford University [online]**, Completed course: 'Machine Learning'

2015 **Cochlear, UK**, Completed course: 'Introduction to Cochlear Implants'

2013 **ABRSM**, Completed: Music Theory, grade 5 (Merit)

AWARDS

2014 **WRoCAH**, Awarded: Doctoral studentship (approx. £14,000 p.a.)

Organisational & Misc. Roles

2017 **Technical manager**, Global Arts & Psychology Conference (Global, semi-virtual conference)

Sheffield, UK

2017 **Co-organiser**, The Best of Sheffield Music Academia (Student conference)

Sheffield, UK

2016 **Ad-hoc editor/ reviewer**, WRoCAH Postgraduate Student Journal

York, UK

2015 **Copy-editor/ reviewer**, International Conference on the Multimodal Experience of Music

Sheffield, UK

Skills

Software etc.

- *Programming:* R, Python, MATLAB
- *Experiment design/ presentation:* PsychoPy, Psyscope, E-Prime
- *Audio-editing:* Praat, Sonic Visualiser, Cubase, FL Studio, Audition, Audacity
- *General:* L^AT_EX, Microsoft Office, HTML, IBM SPSS

Other Interests

- Music production, World cinema, Programming, PC gaming.