

# Manuel Anglada-Tort

Lecturer

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## Personal Profile

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I am a Departmental Lecturer in the Faculty of Music and lead the Research Group [Music, Culture, and Cognition \(MCC\)](#) at the University of Oxford. I am also a visiting researcher in the [Computational Auditory Perception Group](#) at Max Planck Institute for Empirical Aesthetics. I am interested in understanding the psychological and cultural foundations of music behaviour and aesthetics, and the role they play in human societies and cultural evolution. My research covers a variety of topics, including music perception, biological and cognitive foundations of musical behaviour, production and consumption of creative work, popularity dynamics, collective cognition, network science, and cultural evolution.

## Education and research

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### 2023 - Departmental Lecturer

*Faculty of Music, University of Oxford*

- Leading the Music, Culture, and Cognition (MCC) Lab, conducting research on a variety of topics broadly related to the psychology of music, auditory perception, empirical aesthetics, and cultural evolution.
- Teaching psychology, music cognition, and cultural evolution, both at undergraduate and postgraduate levels.
- Student tutoring and supervision.

### 2020 - 2022 Postdoctoral researcher

*Computational Auditory Perception Group, Max Planck Institute for Empirical Aesthetics (Germany), supervised by Dr Nori Jacoby.*

- Researching fundamental components of auditory perception, including rhythm and melody.
- Developing new psychological methods, including large-scale perceptual experiments and iterated learning paradigms in complex production modalities, such as speech and singing.

- Developing new testing software for online behavioural experiments (*REPP*, *sing4me*, *PsyNet*).
- Articles published in *Nature Human Behaviour*, *Current Biology*, *Behavior Research Methods*, *Psychology of Aesthetics, Creativity, and the Arts*, and *NeurIPS 2020*.

## 2018 - Research consultant

*SoundOUT – Sonic Testing (UK); DLMDD – Sonic Branding Agency (UK)*

- Amazon (2020-2021): tested the effectiveness of sonic logos for Amazon using massive online experiments.
- Aldi (2019): performed large-scale behavioural research to identify a new audio logo identity for Aldi UK.

*SoundOUT – Sonic Testing (UK)*

- SONOS - Home Sound Systems (2019): Assessed the impact of audio systems on music listening experiences.

*iV Audio branding (US)*

- Cadbury Chocolate (2018-2019): Examined crossmodally congruent relationships between sound, flavour, and mood.

## 2017-20 PhD in Psychology, *Summa Cum Laude*

*Audio Communication Group, Technische Universität Berlin (Germany), supervised by Prof Dr Stefan Weinzierl and Prof Dr Daniel Müllensiefen.*

- Applied insights from behavioural economics to decision making in the context of music, aesthetics, and the arts.
- Collaborated with international researchers in various scientific contributions (e.g., Prof Dr Adrian North, Curtin University, Australia; Prof Alexander Lamont, Keele University, UK; Steve Keller, Sonic Strategy Director in Pandora, US).
- Publications in the *Quarterly Journal of Experimental Psychology*, *Memory*, *Psychology of Aesthetics, Creativity, and the Arts*, *Journal of Advertising Research*, *International Journal of Advertising*, *Psychology of Music*, and *Music & Science*.

## 2014-15 MSc in Music, Mind & Brain, *Distinction*

*Psychology Department, Goldsmiths, University of London, (UK), supervised by Prof Dr Daniel Müllensiefen.*

- Focus on neuroscience, research methods, psychoacoustics, and music cognition.
- Master thesis published in *Music Perception*.

## 2009-13 BA in Psychology

*Universtiat Rovira i Virgili (Spain)*

- Focus on cognitive science, research methods, and psycholinguistics.
- BA thesis published in *Second Language Research*.

## Teaching and supervising

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- 2021      **Academic mentor**  
*ICMPC-ESCOM mentoring scheme, funded by the British Academy*
- One-to-one mentoring for academics from developing countries, providing guidance and support to produce a journal article for publication.
- 2019      **Lecturer in Psychology**  
*Humboldt-Universität zu Berlin (Germany)*
- Taught research methods and statistics using R, both at the BA and master levels.
  - Wrote and marked weekly assignments and final exams.
- 2015-      **Co-supervisor of MSc projects**  
*MSc in Audio Communication and Technology, Technische Universität Berlin (Germany)*
- Melanie Schulz (2020-2021)
  - Miguel Reyes (2020-2021)
  - Till Noé (2019-2020)
- Msc in, Mind & Brain, Goldsmiths, University of London (UK)*
- Austin Coates (2020-2021)
  - Pattera Sutanthavibul (2018-2019)
  - Kerry Schofield (2017-2018)
  - Heather Thueringer (2017-2018)
  - Emily Beth Hill (2017-2018)
  - Thomas Baker (2016-2017)
  - Björn Thorleifsson (2015-2016)
- 2015-17      **Special Needs Teacher**  
*The Garden School (UK)*
- Taught and supported autistic students with complex learning disabilities.
  - Worked collaboratively with parents and professionals.

## Funding

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- 2022      **Oxford-Berlin Research Partnership (10,000 €)**  
*Strategic research partnership awarded in collaboration with Dr Mats Küssner at Humboldt University, Berlin (Germany)*
- Strategic research partnership granted to high-quality joint research initiatives.

- The *Oxford-Berlin Research Partnerships* is a strategic research grant between Oxford and the four universities making up the Berlin University Alliance: <https://www.ox.ac.uk/about/international-oxford/oxford-berlin-research-partnership>

## 2017-20 PhD scholarship (540,000 €)

*Funded by the Studienstiftung des Deutschen Volkes (Germany)*

- 3-year doctoral scholarship granted to highly qualified and socially committed researchers.
- The *Studienstiftung* (German National Academic Foundation) is one of the largest and most prestigious organizations for the promotion of gifted students in Germany: <https://www.studienstiftung.de/>

## 2017-19 Conference Awards

*Funded by the Society for Education, Music, and Psychology Research*

- Travel grant to attend the conference, “Again & Again: Musical Repetition in Aesthetics, Analysis, and Experience”.

*Funded by the German Society for Music Psychology*

- Travel grant to attend the 2018 DGM Conference, Giessen (Germany).

*Funded by the Society for Education, Music, and Psychology Research*

- Travel grant to attend the 15th International Conference on Music Perception and Cognition (ICMPC) and 10th Conference of the European Society for the Cognitive Sciences of Music (ESCOM), Graz Austria

*Funded by the Society for Education, Music, and Psychology Research*

- Travel grant to attend the 9<sup>th</sup> Conference of the European Society for the Cognitive Sciences of Music (ESCOM), Ghent (Belgium).

## Software development

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My strongest programming languages are R and Python. I also have experience with JavaScript, HTML/CSS, and MATLAB.

I am a co-developer of the following software packages:

**PsyNet** Open-source platform to build, run, and automate next-generation online psychological experiments (Python, JS, HTML): <https://www.psynet.dev/>

**REPP** Open-source package for measuring sensorimotor synchronisation in online experiments (Python): <https://gitlab.com/computational-audition/repp>

**Sing4me** A package in development for conducting speech and singing experiments online, including methods to extract fundamental frequencies from voice and manipulate sequences of sounds (Python).

## Publications

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**2022** **Anglada-Tort, M.**, Harrison, P. M. C., & Jacoby, N. (2022). Studying the effect of oral transmission on melodic structure using online singing experiments. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 44(44). doi: <https://escholarship.org/uc/item/3567q2vf>

**\*Anglada-Tort, M.**, Harrison, P. M. C., & Jacoby, N. (2022): REPP: A robust cross-platform solution for online sensorimotor synchronization experiments. *Behavioral Research Methods* 4, 2271–2285 (2022). doi: <https://doi.org/10.3758/s13428-021-01722-2>

*\*Along with this publication, I published a free and open-source Python library that allows conducting auditory synchronization online experiments (<https://qitlab.com/computational-audition/repp>). This technology is being used in several labs.*

**\*Niarchou, M.**, Gustavson, D. J., Sathirapongsasuti, F., **Anglada-Tort, M.**, ..., Jacoby, N., & Gordon R. L. (2022): Unravelling the genetic architecture of musical rhythm: a large-scale genome-wide association study of beat synchronization. *Nature Human Behaviour* 6, 1292–1309 (2022). Doi: <https://doi.org/10.1038/s41562-022-01359-x>

*\*Responsible for implementing and deploying large-scale beat synchronization experiments online to more than 500 participants, data analyses and visualization.*

**Anglada-Tort, M.**, Masters, N., Steffens, J., North, A., & Müllensiefen, D. (2022). The Behavioural Economics of Music: Systematic review and future directions. *Quarterly Journal of Experimental Psychology*, 0(0). doi: <https://doi.org/10.1177/17470218221113761>

**Anglada-Tort, M.**, Schofield, K., Trahan, T., & Müllensiefen, D. (2022). I've heard that brand before: The role of music recognition on consumer choice. *International Journal of Advertising*, 1-20. doi: <https://doi.org/10.1080/02650487.2022.2060568>

**2021** **\*Jacoby, N.**, Polak, R., Grahn, J., Cameron, D. J., Lee, K. M., Godoy, R., ... **Anglada-Tort, M.**, Harrison, P. M. C., McPherson, M. J., Dolan, S., Durange, A., & Mcdermott, J. (2021). Universality and cross-cultural variation in mental representations of music revealed by global comparison of rhythm priors. Manuscript accepted in *Nature Human Behavior*. PsyArXiv preprint doi: <https://doi.org/10.31234/osf.io/b879v>

*\*Responsible for implementing and deploying an online iterated learning paradigm in the tapping modality (rhythm) in India, Brazil, and the US.*

\*Savage, P. E., Jacoby, N., Margulis, E. H., Daikoku, H., **Anglada-Tort, M.**, Castelo-Branco, S. E.-S., ..., Patel, A., & Schippers, H. (2021). Building sustainable global collaborative networks: Recommendations from music studies and the social sciences. In E. H. Margulis, D. Loughridge, & P. Loui (Eds.), *The science-music borderlands: Reckoning with the past, imagining the future*. MIT Press. Preprint doi: <http://doi.org/10.31234/osf.io/cb4ys>

*\*Book Chapter based on a symposium entitled "Building sustainable global collaborative research networks", February 2021*

**Anglada-Tort, M.**, Krause, A. E., & North, A. C. (2021). Popular music lyrics and musicians' gender over time: A computational approach. *Psychology of Music*, 49(3), 426-444. doi: <https://doi.org/10.1177/0305735619871602>

**Anglada-Tort, M.**, Keller, S., Steffens, J., & Müllensiefen, D. (2021): The impact of source effects on the evaluation of music for advertising: Are there differences in how advertising professionals and consumers judge music? *Journal of Advertising Research*. doi: <https://doi.org/10.2501/JAR-2020-016>

**2020 Anglada-Tort, M.**, & Skov, M. (2020): What counts as Aesthetics in Science? A bibliometric Analysis and Visualization of the Scientific Literature from 1970 to 2018. *Psychology of Aesthetics, Creativity, and the Arts*. Advance online publication. Doi: <https://doi.org/10.1037/aca0000350>

\*Harrison, P. M. C., Marjeh, R., Adolphi, F., van Rijn, P., **Anglada-Tort, M.**, Tchernichovski, O., Larrouy-Maestri, P., & Jacoby, N. (2020). Gibbs Sampling with People. 34th Conference on Neural Information Processing Systems (NeurIPS 2020). <https://arxiv.org/abs/2008.02595>

*\*Neural Information Processing Systems is the most prestigious international machine learning and neuroscience conference. Our article was accepted for oral presentation, something achieved by only the top 1% of submitted articles.*

**2019 Anglada-Tort, M.**, Steffens, J., & Müllensiefen, D. (2019): Names and titles matter: The impact of linguistic fluency and the affect heuristic on aesthetics and value judgements of music. *Psychology of Aesthetics, Creativity, and the Arts*, 13 (3), 277-292. doi: <https://dx.doi.org/10.1037/aca0000172>

**Anglada-Tort, M.** (2019): Measuring stereotypes in music: A commentary on Susino and Schubert (2019). *Empirical Musicology Review*, 14(1-2), 16-21. doi: <http://dx.doi.org/10.18061/emr.v13i1-2.6387>

**Anglada-Tort, M.**, Thueringer, H., & Omigie, D. (2019): The busking experiment: A field study measuring behavioural responses to street music performances. *Psychomusicology: Music, Mind, and Brain*, 29(1), 46-55. doi: <http://dx.doi.org/10.1037/pmu0000236>

**Anglada-Tort, M., & Sanfilippo, K.R.M.** (2019): Visualizing music psychology: A bibliometric analysis of Psychology of Music, Music Perception, and Musicae Scientiae from 1973 to 2017", *Music & Science*, 2, 2059204318811786. doi: <https://doi.org/10.1177/2059204318811786>

**Anglada-Tort, M.** (2018): Commentary on Canonne (2018): Listening to improvisation. *Empirical Musicology Review*. doi: <http://dx.doi.org/10.18061/emr.v13i1-2.6387>

**2018 Anglada-Tort, M., Baker, T., & Müllensiefen, D.** (2018): False memories in music listening: Exploring the misinformation effect and individual difference factors in auditory memory. *Memory*, 1-16. doi: <https://doi.org/10.1080/09658211.2018.1545858>

**2017 Anglada-Tort, M., & Müllensiefen, D.** (2017): The repeated recording illusion: The effects of extrinsic and individual difference factors on musical judgments. *Music Perception*, 35(1), 94-117. doi: <https://doi.org/10.1525/mp.2017.35.1.94>

Ferré, P., **Anglada-Tort, M.**, Guasch, M. (2017): Processing of emotional words in bilinguals: Testing the effects of Word concreteness, task type and language status. *Second Language Research*, 34(3), 371-394. doi: <https://doi.org/10.1177/0267658317744008>

## Invited speaker

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- 2023 Faculty of Music, Oxford University**  
'Studying the effect of oral transmission on music evolution using online singing experiments'
- 2022 Comparative and Computational Musicology Lab, Keio University (Japan)**  
'Studying the effect of oral transmission on music evolution using large-scale iterated singing experiments'
- 2022 Humboldt-Universität zu Berlin, Berlin (Germany)**  
'Studying the effect of oral transmission on melodic structure using large-scale iterated singing experiments'
- 2020 Max Planck Institute for Empirical Aesthetics, Frankfurt am Main (Germany)**  
'What counts as aesthetics in Science?'
- 2019 Max Planck Institute for Empirical Aesthetics, Frankfurt am Main (Germany)**  
'Measuring responses to music: methods, challenges, and alternative approaches'

- 2019 **Queen Mary, University of London, London (UK)**  
‘Measuring responses to music: methods, challenges, and alternative approaches’
- 2019 **Humboldt-Universität zu Berlin, Berlin (Germany)**  
‘The Behavioural Economics of Music: A Framework for investigating music decision making’
- 2019 **Hanover University of Music, Drama, and Media, Hanover (Germany)**  
‘Visualizing Music Psychology: Who, What, When, and Where’
- 2018 **Queen Mary, University of London, London (UK)**  
‘The Behavioural Economics of Music: a framework for investigating music decision making’

## Conference presentations

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- 2022 **4<sup>th</sup> Cultural Evolution Society Conference (CES), Aarhus (Denmark)**  
‘Studying the effect of oral transmission on human song using large-scale iterated singing experiments’
- 2022 **44<sup>th</sup> Annual Meeting of the Cognitive Science Society (CogSci), Toronto (Canada)**  
‘Studying the effect of oral transmission on melodic structure using online iterated singing experiments’
- 2021 **Rhythm Production and Perception Workshop (RITMO), virtual conference**  
‘REPP: A robust cross-platform solution for online sensorimotor synchronization experiments’
- 2021 **NEST Conference: New England Sequencing & timing, virtual conference**  
‘REPP: A robust cross-platform solution for online sensorimotor synchronization experiments’
- 2021 **16th International Conference on Music Perception and Cognition (ICMPC) and 11th Conference of the European Society for the Cognitive Sciences of Music (ESCOM), Sheffield (UK)**  
*Talk 1:* ‘The Behavioral Economics of Music: A framework for investigating music decision making’  
*Talk 2:* ‘REPP: A robust cross-platform solution for online sensorimotor synchronization experiments’  
*Talk 3:* ‘Influencing musical memories: how young adult listeners remember music over long-time spans’
- 2019 **Conference on Behavioral Science, Prague (Czech Republic)**  
‘The Behavioral Economics of Music’



- 2019 **Again & Again: Musical Repetition in Aesthetics, Analysis, and Experience**, London (UK)  
 'The Repeated Recording Illusion'
- 2018 **15th International Conference on Music Perception and Cognition (ICMPC) and 10th Conference of the European Society for the Cognitive Sciences of Music (ESCOM)**, Graz (Austria)  
*Talk 1*: 'False memories in music listening: Exploring the misinformation effect and individual difference factors in memory for music'  
*Talk 2*: 'The effects of source bias on the evaluation of music in advertising: professionals vs. Consumers'
- 2018 **Conference of the German Society for Music Psychology (DGM)**, Giessen (Germany)  
 'Source-Effekte, ästhetische Bewertung und geschätzte Lizenkosten im Kontext von Werbemusik'
- 2017 **25<sup>th</sup> Anniversary of the European Society for the Cognitive Sciences of Music (ESCOM)**, Ghent (Belgium)  
 'Does the fluency of artists and songs' names matter? The effect of linguistic fluency on evaluations of music'
- 2016 **14<sup>th</sup> International Conference on Music Perception and Cognition (ICMPC)**, San Francisco (US)  
 'The song remains the same: Biases in musical judgments and the illusion of hearing different songs'

## Peer review

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I have reviewed articles for the journals of *Psychology & Marketing*, *Psychology of Aesthetics, Creativity, and the Arts*, *Music Perception*, *Brain Sciences*, *Psychology of Music*, *Music & Science*, *POETICS*, *Music Education Research*, *Empirical Musicology Review*, and *Journal of Media Business Studies*. I have also reviewed submissions for the 2017 and 2018 conferences of the *International Society for Music Information Retrieval* (ISMIR), and the 2021 *International Conference of Students of Systematic Musicology*.