

# Harin Lee

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PhD candidate in Cognitive Science

GitHub: harin-git  
Twitter: TweetHarin

My research interests are about the cross-cultural diversity in music and the methods we can apply to quantify its characteristics. I combine datasets of music around the world with large-scale behavioural experiments to tackle questions about inter-individual and cross-cultural differences in music cognition.

## SKILLS

<b>Tools and Code</b>	R, Python, Git, $\LaTeX$ , Markdown, MaxMSP, Ableton, 3D Motion Capture
<b>Quantitative Research</b>	Large-scale automated online experiments (PsyNet, Dallinger), Reproducible Science
<b>Languages</b>	English, Korean

## EDUCATION

<b>PhD fellowship at IMPRS NeuroCom</b> <i>Max Planck Institute for Human Cognitive and Brain Sciences</i> <ul style="list-style-type: none"><li>Neurobiology group led by Prof. Marc Schönwiesner</li></ul>	<b>Oct 2020 — Present</b> <i>Leipzig, Germany</i>
<b>Visiting researcher</b> <i>Max Planck Institute for Empirical Aesthetics</i> <ul style="list-style-type: none"><li>Computational Auditory Perception group led by Dr. Nori Jacoby</li></ul>	<b>Oct 2020 — Present</b> <i>Frankfurt, Germany</i>
<b>MSc in Music, Mind and Brain (Distinction)</b> <i>Goldsmiths, University of London</i> <ul style="list-style-type: none"><li>Thesis titled "Signals through music and dance: Perceived social bonds and formidability in synchronised and coordinated movements" — supervised by Prof. Lauren Stewart and Dr. Jacques Launay</li></ul>	<b>Oct 2017 — Oct 2-18</b> <i>London, UK</i>
<b>BMus in Popular Music Studies (First class honour)</b> <i>Goldsmiths, University of London</i> <ul style="list-style-type: none"><li>Research project titled "Research project: Production of an album consisting of five compositions written in a novel musical scale developed using MaxMSP"</li></ul>	<b>Oct 2013 — Jun 2017</b> <i>London, UK</i>
<b>A-Levels</b> <i>Richard Huish College</i> <ul style="list-style-type: none"><li>A* A* A in Math, Music technology, Physics</li></ul>	<b>Oct 2011 — Jun 2013</b> <i>Taunton, UK</i>

## PUBLICATIONS

- van Rijn, P., **Lee, H. (shared co-first)**, Jacoby, N. (2022). Bridging the prosody GAP: Genetic Algorithm with People to efficiently sample emotional prosody. *Proceedings of the Annual Meeting of the Cognitive Science Society*.
- Lee, H.**, Hoeger, F., Schoenwiesner, M., Park, M., Jacoby, N. (2021). Cross-cultural Mood Perception in Pop Songs and its Alignment with Mood Detection Algorithms. *Proceedings of the 22nd International Society for Music Information Retrieval Conference*, 366–373. <https://doi.org/10.5281/zenodo.5625680>
- Lee, H.**, Launay, J., Stewart, L. (2020). Signals through music and dance: Perceived social bonds and formidability on collective movement. *Acta Psychologica*, 208, 103093. <https://doi.org/10.1016/j.actpsy.2020.103093>
- Lee, H.**, Müllensiefen, D. (2020). The Timbre Perception Test (TPT): A new interactive musical assessment tool to measure timbre perception ability. *Attention, Perception, and Psychophysics*, 82(7), 3658–3675. <https://doi.org/10.3758/s13414-020-02058-3>

## IN-REVIEW

- Marjieh, R., Harrison, P. M. C., **Lee, H.**, Deligiannaki, F., Jacoby, N. Reshaping musical consonance with timbral manipulations and massive online experiments. In review at *Science Advances*
- Marjieh, R., van Rijn, P., Sucholutsky, I., Sumers, T. R., **Lee, H.**, Griffiths, T. L., Jacoby, N. Words are all you need? Capturing human sensory similarity with textual descriptors. In review at *International Conference on Learning Representations (ICLR)*
- Tort, M., **Lee, H.**, Krause A., North, A. Here comes the sun: Popular music features reflect prevailing weather conditions in the United Kingdom. In review at *Royal Society Open Science*

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## PRESENTATIONS

<b>Cultural Evolution Society (CES)</b> <i>Oral presentation</i>	<b>2022</b> <i>Aarhus, Denmark</i>
<b>Systematic Musicology (SysMus)</b> <i>Oral presentation</i>	<b>2022</b> <i>Ghent, Belgium</i>
<b>Cognitive Science Society Annual Meeting (CogSci)</b> <i>Oral presentation</i>	<b>2022</b> <i>Toronto, Canada</i>
<b>22nd International Society for Music Information Retrieval Conference (ISMIR)</b> <i>Oral presentation — nominated for Best Student Paper</i>	<b>2021</b> <i>Virtual</i>
<b>16th International Conference on Music Perception and Cognition (ICMPC)</b> <i>Oral presentation — nominated for Best Student Paper</i>	<b>2021</b> <i>Virtual</i>
<b>Timbre2020</b> <i>Poster presentation</i>	<b>2020</b> <i>Virtual</i>
<b>Conference on Interdisciplinary Musicology Embodiment Music</b> <i>Oral presentation</i>	<b>2019</b> <i>Graz, Austria</i>
<b>Forum IRCAM Annual Workshop</b> <i>Poster presentation</i>	<b>2019</b> <i>Paris, France</i>

## INVITED TALKS

<b>CompMusic Lab, Keio University</b> <i>Cross-cultural mood perception in pop songs and its alignment with algorithmic estimates</i>	<b>2022</b> <i>Virtual</i>
<b>Deezer, Paris</b> <i>GlobalPOP: Investigating the historical trajectories of popular music around the world</i>	<b>2022</b> <i>Virtual</i>
<b>Brain Awareness Week Science Night</b> <i>Without a song or a dance what are we?</i>	<b>2022</b> <i>Leipzig, Germany</i>

## PROFESSIONAL EXPERIENCES

<b>Co-founder, "aiar" neuro-music collective (aiar-git.github.io) (Leipzig)</b>	since 2021
<b>Research Assistant, Music Technology and Wearables X-SYSTEM Ltd. (London)</b>	2018
<b>Producer and Sound Engineer, GMS studio (London), Part-time DJ, Music Producer</b>	2014 — 2018

## GRANT & FELLOWSHIPS

<b>Diverse Intelligence Summer Institute (DISI) research fellow (\$3,000)</b> <i>3-weeks long summer school</i>	<b>2022</b> <i>St. Andrews, Scotland</i>
<b>Art project funded by the Leipzig City Council (€9,500)</b> <i>An installation piece incorporating live brain imaging to shape musical soundscapes</i>	<b>2022</b> <i>Leipzig, Germany</i>
<b>PhD research fellow funded by the Max Planck Society (3 years full funding)</b> <i>Awarded on competitive basis</i>	<b>2020</b> <i>Germany</i>
<b>Academic Excellence Scholarship (£3,000)</b> <i>Awarded to enter the MSc course</i>	<b>2017</b> <i>UK</i>
<b>Joe Brown Memorial Scholarship (£500)</b> <i>Awarded for creative project involving live electronic work during BMus</i>	<b>2016</b> <i>UK</i>

## OTHER ACHIEVEMENTS

<b>Neuromatch Academy Summer School</b> <i>Completed 3-weeks interactive track on computational neuroscience</i>	<b>2020</b> <i>Virtual</i>
<b>Open Research Software and Open Source certificate</b> <i>Open Science MOOC</i>	<b>2019</b>
<b>Technical Team</b> <i>ICMPC15/ESCOM10 — Largest conference on music cognition</i>	<b>2018</b> <i>Graz, Austria</i>
<b>Goldsmiths Balinese Gamelan Group</b> <i>Performed at the Horniman Museum and PureGold Festival 2018</i>	<b>2016 — 2018</b>