

# 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.

## EDUCATION

### PhD fellowship at IMPRS NeuroCom

Max Planck Institute for Human Cognitive and Brain Sciences

- Neurobiology group led by Prof. Marc Schönwiesner

Oct 2020 — Present

Leipzig, Germany

### Visiting researcher

Max Planck Institute for Empirical Aesthetics

- Computational Auditory Perception group led by Dr. Nori Jacoby

Oct 2020 — Present

Frankfurt, Germany

### MSc in Music, Mind and Brain (Distinction)

Goldsmiths, University of London

- 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

Oct 2017 — Oct 2-18

London, UK

### BMus in Popular Music Studies (First class honour)

Goldsmiths, University of London

- Research project titled "Research project: Production of an album consisting of five compositions written in a novel musical scale developed using MaxMSP"

Oct 2013 — Jun 2017

London, UK

### A-Levels

Richard Huish College

- A\* A\* A in Math, Music technology, Physics

Oct 2011 — Jun 2013

Taunton, UK

## PUBLICATIONS

- Anglada-Tort, M., **Lee, H.**, Krause, A. E., & North, A. C. (2023). Here comes the sun: Music features of popular songs reflect prevailing weather conditions. *Royal Society Open Science*, 10(5), 221443. <https://doi.org/10.1098/rsos.221443>
- van Rijn, P., Sun, Y., **Lee, H.**, Marjeh, R., Sucholutsky, I., Lanza-rini, F., André, E., & Jacoby, N. (2023). Around the world in 60 words: A generative vocabulary test for online research. *Proceedings of the Annual Meeting of the Cognitive Science Society*. <https://doi.org/10.48550/arXiv.2302.01614>
- Anglada-Tort, M., Harrison, P. M. C., **Lee, H.**, & Jacoby, N. (2023). Large-scale iterated singing experiments reveal oral transmission mechanisms underlying music evolution. *Current Biology*, 0(0). <https://doi.org/10.1016/j.cub.2023.02.070>
- Marjeh, R., Rijn, P. V., Sucholutsky, I., Summers, T., **Lee, H.**, Griffiths, T. L., & Jacoby, N. (2023). Words are all you need? Language as an approximation for human similarity judgments. *International Conference on Learning Representations (ICLR)*. <https://arxiv.org/abs/2206.04105>
- 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*. [10.5281/zenodo.5625680](https://doi.org/10.5281/zenodo.5625680)
- 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 (ISMIR)*, 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

- Marjeh, R., Harrison, P. M. C., **Lee, H.**, Deligiannaki, F., & Jacoby, N. Reshaping musical consonance with timbral manipulations and massive online experiments. *In review*. <https://www.biorxiv.org/content/10.1101/2022.06.14.496070v1>

## SKILLS

### Tools and Code

R, Python, Git,  $\LaTeX$ , Markdown, MaxMSP, Ableton, 3D Motion Capture

### Quantitative Research

Large-scale automated online experiments (PsyNet, Dallinger), Reproducible Science

### Languages

English, Korean

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## PRESENTATIONS

<b>Cultural Evolution Society (CES)</b> (Oral) <i>Studying the evolution of pop music across 55 countries since the 1950s</i>	<b>2022</b> Aarhus, Denmark
<b>Systematic Musicology (SysMus)</b> (Oral) <i>Song Lyrics Around the World</i>	<b>2022</b> Ghent, Belgium
<b>Cognitive Science Society Annual Meeting (CogSci)</b> (Oral & Poster) <i>Bridging the prosody GAP: Genetic Algorithm with People to efficiently sample emotional prosody</i>	<b>2022</b> Toronto, Canada
<b>22nd International Society for Music Information Retrieval Conference (ISMIR)</b> (Oral, nominated for Best Student Paper) <i>Cross-cultural mood perception in pop songs and its alignment with mood detection algorithms</i>	<b>2021</b> Virtual
<b>16th International Conference on Music Perception and Cognition (ICMPC)</b> (Oral, nominated for Best Student Paper) <i>Converging and diverging patterns in the evolution of popular music around the globe</i>	<b>2021</b> Virtual
<b>Timbre2020</b> (Poster) <i>A New Test for Measuring Individual's Timbre Perception Ability</i>	<b>2020</b> Virtual
<b>Conference on Interdisciplinary Musicology Embodiment Music</b> (Oral) <i>A New Test for Measuring Individual's Timbre Perception Ability</i>	<b>2019</b> Graz, Austria
<b>Forum IRCAM Annual Workshop</b> (Poster) <i>TPT: Timbre Perception Test</i>	<b>2019</b> Paris, France

## 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> Virtual
<b>Deezer, Paris</b> <i>GlobalPOP: Investigating the historical trajectories of popular music around the world</i>	<b>2022</b> Virtual
<b>Brain Awareness Week Science Night</b> <i>Without a song or a dance what are we?</i>	<b>2022</b> Leipzig, Germany

## PROFESSIONAL EXPERIENCES

<b>Intern Scientific Researcher, Deezer (Paris)</b>	2023 — current
<b>Co-founder, "aiar" neuro-music collective (<a href="http://aiarcollective.com">aiarcollective.com</a>) (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> St. Andrews, Scotland
<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> Leipzig, Germany
<b>PhD research fellow funded by the Max Planck Society (3 years full funding)</b> <i>Awarded on competitive basis</i>	<b>2020</b> Germany
<b>Academic Excellence Scholarship (£3,000)</b> <i>Awarded to enter the MSc course</i>	<b>2017</b> UK
<b>Joe Brown Memorial Scholarship (£500)</b> <i>Awarded for creative project involving live electronic work during BMus</i>	<b>2016</b> UK

## OTHER ACHIEVEMENTS

<b>Neuromatch Academy Summer School</b> <i>Completed 3-weeks interactive track on computational neuroscience</i>	<b>2020</b> Virtual
<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> Graz, Austria
<b>Goldsmiths Balinese Gamelan Group</b> <i>Performed at the Horniman Museum and PureGold Festival 2018</i>	<b>2016 — 2018</b>