

# Harin Lee

www.harinlee.info  
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PhD candidate in Cognitive Science

Twitter: TweetHarin  
Last update: October 25, 2023

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** Oct 2020 — Present  
*Max Planck Institute for Human Cognitive and Brain Sciences*  
Leipzig, Germany
- Neurobiology group led by Prof. Marc Schönwiesner
- Visiting researcher** Oct 2020 — Present  
*Max Planck Institute for Empirical Aesthetics*  
Frankfurt, Germany
- Computational Auditory Perception group led by Dr. Nori Jacoby
- MSc in Music, Mind and Brain (Distinction)** Oct 2017 — Oct 2-18  
*Goldsmiths, University of London*  
London, UK
- 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
- BMus in Popular Music Studies (First class honour)** Oct 2013 — Jun 2017  
*Goldsmiths, University of London*  
London, UK
- Research project titled "Research project: Production of an album consisting of five compositions written in a novel musical scale developed using MaxMSP"
- A-Levels** Oct 2011 — Jun 2013  
*Richard Huish College*  
Taunton, UK
- A\* A\* A in Math, Music technology, Physics

## 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>. [PDF]
- van Rijn, P., Sun, Y., Lee, H., Marjeh, R., Sucholutsky, I., Lanzarini, F., André, E., & Jacoby, N. (2023). Around the world in 60 words: A generative vocabulary test for online research. *CogSci*. <https://doi.org/10.48550/arXiv.2302.01614>. [PDF]
- 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>. [PDF]
- 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. *ICLR*. <https://arxiv.org/abs/2206.04105>. [PDF]
- van Rijn, P., Lee, H. (shared co-first), & Jacoby, N. (2022). Bridging the prosody GAP: Genetic Algorithm with People to efficiently sample emotional prosody. *CogSci*. 10.5281/zenodo.5625680. [PDF]
- 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. *ISMIR*, 366–373. <https://doi.org/10.5281/zenodo.5625680>. [PDF]
- 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>. [PDF]
- 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>. [PDF]

## IN-REVIEW

- Marjeh, R., Harrison, P. M. C., Lee, H., Deligiannaki, F., & Jacoby, N. Reshaping musical consonance with timbral manipulations and massive online experiments. Forthcoming in *Nature Communications*. <https://www.biorxiv.org/content/10.1101/2022.06.14.496070v1>
- Lee, H., Hennequin, H., & Moussallam, M. Understanding Individual and Collective Diversity of Cultural Consumption through Large-Scale of Music Listening Events. Forthcoming in *Proceedings of the Computational Humanities Research Conference*.

## SKILLS

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|------------------------------|--|
| <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  |

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## PRESENTATIONS

<b>Computational Humanities Research Conference 2023 (CHR)</b> (Oral) <i>Understanding individual and collective diversity of cultural consumption</i>	<b>2023</b> Paris, France
<b>17th International Conference on Music Perception and Cognition (ICMPC)</b> (Oral) <i>Studying a global network of cultural diffusion through large-scale music discovery behaviour</i>	<b>2023</b> Tokyo, Japan
<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>Evolution &amp; Social Cognition Group, Ecole Normale Supérieure</b> <i>Understanding cultural diversity and spread through large-scale music listening behaviour</i>	<b>2023</b> Paris, France
<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 Research</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>	May — Oct 2023
<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>	May — Aug 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

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## OTHER ACHIEVEMENTS

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