Harin Lee

www.harinlee.info
hlee@cbs.mpg.de

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   **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., 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
- Marjieh, R., Rijn, P. V., Sucholutsky, I., Sumers, 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
- **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

- Marjieh, 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
- Tort, M., **Lee, H.**, Krause A., & North, A. Here comes the sun: Popular music features reflect prevailing weather conditions in the United Kingdom. In press at *Royal Society Open Science*
- van Rijn, P., Sun, Y., **Lee, H.**, Marjieh, R., Sucholutsky, I., Lanzarini, F., André, E., & Jacoby, N. (2023). Around the world in 60 words: A generative vocabulary test for online research. *In review*. https://doi.org/10.48550/arXiv.2302.01614

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

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

INVITED TALKS

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

PROFESSIONAL EXPERIENCES

Co-founder, *"aiar" neuro-music collective (`aiarcollective.com`) (Leipzig)*	since 2021
Research Assistant, *Music Technology and Wearables X-SYSTEM Ltd. (London)*	2018
Producer and Sound Engineer, *GMS studio (London), Part-time DJ, Music Producer*	2014 — 2018

GRANT & FELLOWSHIPS

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

OTHER ACHIEVEMENTS

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