

List of publications

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Journal articles

Bechtold, T. A., Curry, B., & Witek, M. A. G. (2025). Combining groovy popular music drum beats with catchy Keyboard or guitar Patterns: The urge to move and catchiness in polyphonic context. *Music & Science*, 8, 20592043251361627.

<https://doi.org/10.1177/20592043251361627>

Kawase, S., Okano, M., **Bechtold, T. A.**, & Senn, O. (2025). Japanese version of the Experience of Groove Questionnaire (EGQ-JA): Translation and validation.

Music Perception, 1–13. <https://doi.org/10.1525/mp.2025.2457869>

Senn, O., Hoesl, F., **Bechtold, T. A.**, Kilchenmann, L., Jerjen, R., Witek, M. (2024) Null effect of perceived drum pattern complexity on the experience of groove.

PLoS ONE, 19(11): e0311877. <https://doi.org/10.1371/journal.pone.0311877>

Bechtold, T. A., Curry, B., & Witek, M. (2024). The perceived catchiness of music affects the experience of groove. *PLoS ONE*, 19(5), e0303309.

<https://doi.org/10.1371/journal.pone.0303309>

Stupacher, J., **Bechtold, T. A.**, & Senn, O. (2023). A text mining approach to the use of “groove” in everyday language. *Psychology of Music*, 52(3), 340–

361. <https://doi.org/10.1177/03057356231205883>

Senn, O., Hoesl, F., Jerjen, R., **Bechtold, T. A.**, Kilchenmann, L., Rose, D., & Alessandri, E. (2023). A stimulus set of 40 popular music drum patterns with perceived complexity measures. *Music &*

Science, 6. <https://doi.org/10.1177/20592043231202576>

Senn, O., **Bechtold, T. A.**, Jerjen, R., Kilchenmann, L., & Hoesl, F. (2023). Three psychometric scales for groove research: Inner representation of temporal

regularity, time-related interest, and energetic arousal. *Music &*

Science, 6. <https://doi.org/10.1177/20592043231185663>

Bechtold, T. A., Kilchenmann, L., Curry, B., & Witek, M. A. G. (2023).

Understanding the relationship between catchiness and groove: A qualitative study with popular music creators. *Music Perception*, 40 (5): 353–372.

<https://doi.org/10.1525/mp.2023.40.5.353>

Senn, O., **Bechtold, T. A.**, Hoesl, F., Jerjen, R., Kilchenmann, L., Rose, D., Baldassarre, A., Sigrist, C., & Alessandri, E. (2023). An SEM approach to validating the psychological model of musical groove. *Journal of Experimental Psychology: Human Perception and Performance*. <https://doi.org/10.1037/xhp0001087>

Bechtold, T. A., Jerjen, R., & Senn, O. (2022). Applied groove research. *The IASJ Journal of Applied Jazz Research*, 1 (1).
https://scholarworks.gvsu.edu/iasj_journal/vol1/iss1/7

Hosken, F., **Bechtold, T. A.**, Hoesl, F., Kilchenmann, L., & Senn, O. (2021). Drum groove corpora. *Empirical Musicology Review*, 16(1), 114–123.
<https://dx.doi.org/10.18061/emr.v16i1.7642>

Düvel, N., Labonde, P., **Bechtold, T. A.**, Senn, O., & Kopiez, R. (2021). Experience of Groove Questionnaire: German Translation and validation. *Music Perception*, 39 (1): 83–99. <https://doi.org/10.1525/mp.2021.39.1.83>

Senn, O., **Bechtold, T. A.**, Rose, D., Câmara, G. S., Düvel, N., Jerjen, R., Kilchenmann, L., Hoesl, F., Baldassarre, A., & Alessandri, E. (2020). Experience of Groove Questionnaire: Instrument development and initial validation. *Music Perception*, 38(1), 46–65. <https://doi.org/10.1525/mp.2020.38.1.46>

Senn, O., Rose D., **Bechtold, T. A.**, Kilchenmann, L., Hoesl, F., Jerjen, R., Baldassarre, A., Alessandri, E., (2019). Preliminaries to a psychological model of musical groove. *Frontiers in Psychology*.
<https://doi.org/10.3389/fpsyg.2019.01228>

Senn, O., **Bechtold, T. A.**, Hoesl, F., & Kilchenmann, L. (2019). Taste and familiarity affect the experience of groove in popular music. *Musicae Scientiae*, 1–22. <https://doi.org/10.1177/1029864919839172>

Senn, O., Kilchenmann, L., **Bechtold, T. A.**, & Hoesl, F. (2018). Groove in drum patterns as a function of both rhythmic properties and listeners' attitudes. *PLoS ONE*, 13(6), 1-33. <https://doi.org/10.1371/journal.pone.0199604>

Bechtold, T. A., & Senn, O. (2018). Articulation and dynamics influence the perceptual attack time of saxophone sounds. *Frontiers in Psychology*.
<https://doi.org/10.3389/fpsyg.2018.01692>

Book chapters

Bechtold, T. A. (2025). Digitale Prüfungen am Departement Musik. Förderung von digitalen Kompetenzen anhand Organisation und Durchführung von Prüfungen. In *Digitale Lehre – Digitale Präsenz – Digitales Studium. Stärkung von Digital Skills an drei Hochschulen*. (pp. 98–103). <https://doi.org/10.5281/zenodo.15105704>

Kilchenmann, L., **Bechtold, T. A.**, & Jerjen, R. (2022). Wie populär sind die «besten Alben aller Zeiten»? Eine empirische Betrachtung zur Kanonbildung in der Popmusik. In Knut Holtsträter (Eds.), *Richtig populär? Kriterien der Popularität von Musik* (Vol. 67, pp. 61-78). Münster: Waxmann.

Bechtold, T. A., & Senn, O. (2016). Jungle Beats: Beobachtungen und Gedanken zur Musik von Irène Schweizer. In Christian Broecking (Eds.), *Dieses unbändige Gefühl der Freiheit: Irène Schweizer - Jazz, Avantgarde, Politik* (pp. 385-404). Berlin: Broecking Verlag.

Presentations & posters (selection)

Bechtold, T. A., & Witek, M. A. G. (2025). *Instant Groove & sustained Catchiness: Exploring differences between Groove and Catchiness through temporal thresholds*. RPPW20, Jyväskylä.

Bechtold, T. A., Kilchenmann, L., Jerjen, R., Hoesl, F., & Senn, O. (2024). *The sound(s) of groove: Genre-specific polyphonic timbre and the urge to move*. ESCOM 12, York.

Bechtold, T. A., & Witek, M. (2024). *Rhythm Section Algebra: Groovy Drums + Catchy Keyboards = ?*. ESCOM 12, York.

Bechtold, T. A., Kilchenmann, L., & Witek, M. (2023). *A Driving Beat with a Captivating Melody on Top – The Relationship between Groove and Catchiness in Polyphonic Popular Music*. SysMus'23, Sheffield. <https://doi.org/10.13140/RG.2.2.35133.44003>

Bechtold, T. A., Jerjen, R., Hoesl, F., Kilchenmann, L., & Senn, O. (2023). *Extending the Lucerne Groove Library*. RPPW19, Nottingham.

Bechtold, T. A., & Witek, M. (2022). *The Relationship between Groove and Catchiness in Popular Music Patterns*. SysMus'22, Ghent.

Bechtold, T. A., & Witek, M. (2021). *Groove and catchiness in popular music: An interview study with music experts*. Abstracts of ICMPC16-ESCOM11, 1.
<https://doi.org/10.13140/RG.2.2.34653.33766/1>

Bechtold, T. A., & Witek, M. A. G. (2021). *That's a Different Type of Groove! - How musician's strategies change groove experiences*. Rhythm Production and Perception Workshop (RPPW) 2021, Oslo.
<https://doi.org/10.13140/RG.2.2.32975.61607>

Hoesl, F., **Bechtold, T. A., & Senn, O. (2019).** *On the perception of rhythmic complexity by musical experts and non-experts*. Presented at the 2019 IMS Intercongressional Symposium, Lucerne.

Bechtold, T. A., & Senn, O. (2017). *The influence of articulation and dynamics on the perceptual attack time of saxophone tones*. International Symposium on Performance Science 2017, Reykjavik.

Other work

Co-organizer of the first Groove Workshop, an international conference on Jan 25th-27th 2023.

Member of the ethics commission at the Lucerne University of Applied Sciences and Arts since 2024.

Project lead for "Jazz Helvetica" (jazzhelvetica.ch).

Peer reviewer for Music Perception, Nature, Plos ONE, Psychology of Music, Psychomusicology, Acta Psychologica, JBDGM.