

LIST OF PUBLICATIONS

BIRGITTA BURGER

NOVEMBER 15, 2021

Peer-reviewed scientific articles

1. Allingham, E., Burger, B., & Wöllner, C. (2021). Motor performance in violin bowing: Effects of attentional focus on acoustical, physiological and physical parameters of a sound-producing action. *Journal of New Music Research*.
<https://doi.org/10.1080/09298215.2021.1978506>
2. Burger, B. & Wöllner, C. (2021). The challenge of being slow: Effects of tempo, laterality, and experience on dance movement consistency. *Journal of Motor Behavior*.
<https://doi.org/10.1080/00222895.2021.1896469>
3. Campbell, E. A., Hynynen, J., Burger, B., Vainionpää, A., & Ala-Ruona, E. (2021). Vibroacoustic treatment to improve functioning and ability to work: A multidisciplinary approach to chronic pain rehabilitation. *Disability and Rehabilitation*, 43(14), 2055-2070.
<https://doi.org/10.1080/09638288.2019.1687763>
4. Hammerschmidt, D., Wöllner, C., London, J., & Burger, B. (2021). Disco time: The relationship between perceived duration and tempo in music. *Music & Science*.
<https://doi.org/10.1177%2F2059204320986384>
5. Burger, B., & Toiviainen, P. (2020). Embodiment in Electronic Dance Music: Effects of musical content and structure on body movement. *Musicae Scientiae*, 24(2), 186-205.
<https://doi.org/10.1177/1029864918792594>
6. Burger, B. & Toiviainen, P. (2020). See how it feels to move: Relationships between movement characteristics and perception of emotions in dance. *Human Technology*, 16(3), 233-256. <https://doi.org/10.17011/ht/urn.202011256764>
7. Carlson, E., Saari, P., Burger, B., & Toiviainen, P. (2020). Dance to your own drum: Identification of musical genre and individual dancer from motion capture using machine learning. *Journal of New Music Research*, 49(2), 162-177.
<https://doi.org/10.1080/09298215.2020.1711778>
8. Jantunen, T., De Weert, D., Burger, B., & Puupponen, A. (2020). The more you move, the more action you construct – A motion capture study on head and upper-torso movements in constructed action in Finnish Sign Language narratives. *Gesture*, 19(1), 72-96.
<https://doi.org/10.1075/gest.19042.jan>
9. Jantunen, T., Puupponen, A., & Burger, B. (2020). What Comes First: Combining Motion Capture and Eye Tracking Data to Study the Order of Articulators in Constructed Action in Sign Language Narratives. In *Proceedings of the 12th International Conference of Language Resources and Evaluation (LREC12)*, (pp. 6003-6007). Marseille, France: European Language Resources Association.
10. Küssner, M., Van Dyck, E., Burger, B., Moelants, D., & Vansteenkiste, P. (2020). All eyes on me: Behaving as soloist in duo performances leads to increased body movements and attracts observers' visual attention. *Music Perception*, 38(2), 195-213.
<https://doi.org/10.1525/mp.2020.38.2.195>

11. Campbell, E., Burger, B., & Ala-Ruona, E. (2019). A single-case, mixed methods study exploring the role of music listening in Vibroacoustic treatment. *Voices*, 19(2), 27. <https://doi.org/10.15845/voices.v19i2.2556>
12. Campbell, E., Hynynen, J., Burger, B., & Ala-Ruona, E. (2019). Exploring the use of Vibroacoustic Treatment for managing chronic pain and comorbid mood disorders: A mixed methods study. *Nordic Journal of Music Therapy*, 28(5), 1-24. <https://doi.org/10.1080/08098131.2019.1604565>
13. Carlson, E., Burger, B., & Toiviainen, P. (2019). Empathy, entrainment and perceived interaction in complex dyadic dance movement. *Music Perception*, 36(4), 390-405. <https://doi.org/10.1525/mp.2019.36.4.390>
14. Hartmann, M., Mavrolampados, A., Allingham, E., Carlson, E., Burger, B., & Toiviainen, P. (2019). Kinematics of perceived dyadic coordination in music-induced movement. *Scientific Reports*, 9, 15594. <https://doi.org/10.1038/s41598-019-52097-6>
15. London, J., Burger, B., Thompson, M. R., Hildreth, M., Wilson, J., Schally, N. & Toiviainen, P. (2019). Motown, Disco, and Drumming: An Exploration of the Relationship Between Beat Salience, Melodic Structure, and Perceived Tempo. *Music Perception*, 37(1), 26-41. <https://doi.org/10.1525/mp.2019.37.1.26>
16. London, J., Thompson, M. R., Burger, B., Hildreth, M., & Toiviainen, P. (2019). Tapping doesn't help: Synchronized self-motion and judgments of musical tempo. *Attention, Perception, & Psychophysics*, 81(7), 2461-2472. <https://doi.org/10.3758/s13414-019-01722-7>
17. Burger, B., London, J., Thompson, M. R., & Toiviainen, P. (2018). Synchronization to metrical levels in music depends on event density. *Psychological Research*, 82(6), 1195-1211. <https://doi.org/10.1007/s00426-017-0894-2>
18. Burger, B., Puupponen, A., & Jantunen, T. (2018). Synchronizing eye tracking and optical motion capture: How to bring them together. *Journal of Eye Movement Research*, 11(2):5. <https://doi.org/10.16910/jemr.11.2.5>
19. Carlson, E., Burger, B., & Toiviainen, P. (2018). Dance Like Someone is Watching: A Social Relations Model Study of Music-Induced Movement. *Music & Science*. <https://doi.org/10.1177/2059204318807846>
20. Little, N., Burger, B., & Croucher, S. M. (2018). EDM and Ecstasy: The lived experiences of electronic dance music festival attendees. *Journal of New Music Research*, 47(1), 78-95. <https://doi.org/10.1080/09298215.2017.1358286>
21. Carlson, E., Saari, P., Burger, B., & Toiviainen, P. (2017). Personality and musical preference using social-tagging in excerpt-selection. *Psychomusicology: Music, Mind, and Brain*, 27(3), 203-212. <https://doi.org/10.1037/pmu0000183>
22. Földes, Z., Ala-Ruona, E., Burger, B., & Orsi, G. (2017). Anxiety reduction with music and tempo synchronization on magnetic resonance imaging patients. *Psychomusicology: Music, Mind, and Brain*, 27(4), 343-349. <https://doi.org/10.1037/pmu0000199>
23. Carlson, E., Burger, B., London, J., Thompson, M. R., Toiviainen, P. (2016). Conscientiousness and Extraversion relate to responsiveness to tempo in dance. *Human Movement Science*, 49, 315-325. <https://doi.org/10.1016/j.humov.2016.08.006>
24. Földes, Z., Ala-Ruona, E., Burger, B., & Orsi, G. (2016). The effects of relaxing music on patients undergoing Magnetic Resonance Imaging [abstract]. *Nordic Journal of Music Therapy*, 25 (S1), 129. <https://doi.org/10.1080/08098131.2016.11783620>

25. London, J., Burger, B., Thompson, M. R., & Toiviainen, P. (2016). Speed on the dance floor: Auditory and visual cues for musical tempo. *Acta Psychologica*, *164*, 70-80. <https://doi.org/10.1016/j.actpsy.2015.12.005>
26. Puupponen, A., Wainio, T., Burger, B., & Jantunen, T. (2015). Head movements in the dimension of depth in FinSL: Nods, nodding, head thrusts, and head pulls. *Sign Language and Linguistics*, *18*(1), 41-89. <https://doi.org/10.1075/sll.18.1.02puu>
27. Burger, B., Thompson, M. R., Saarikallio, S., Luck, G., & Toiviainen, P. (2014). Hunting for the beat in the body: On period and phase locking in music-induced movement. *Frontiers in Human Neuroscience*, *8*:903, 1-16. <https://doi.org/10.3389/fnhum.2014.00903>
28. Luck, G., Saarikallio, S., Burger, B., Thompson, M. R., & Toiviainen, P. (2014). Emotion-driven encoding of music preference and personality in dance. *Musicae Scientiae*, *18*(3), 307- 323. <https://doi.org/10.1177/1029864914537290>
29. Burger, B., Ahokas, R., Keipi, A., & Toiviainen, P. (2013). Relationships between spectral flux, perceived rhythmic strength, and the propensity to move. In R. Bresin (Ed.), *Proceedings of the 10th Sound and Music Computing Conference (SMC10)*, (pp. 179-184). Stockholm, Sweden: KTH Royal Institute of Technology.
30. Burger, B., Saarikallio, S., Luck, G., Thompson, M. R., & Toiviainen, P. (2013). Relationships between perceived emotions in music and music-induced movement. *Music Perception*, *30*(5), 519-535. <https://doi.org/10.1525/mp.2013.30.5.517>
31. Burger, B., Thompson, M. R., Saarikallio, S., Luck, G., & Toiviainen, P. (2013). Influences of rhythm- and timbre-related musical features on characteristics of music-induced movement. *Frontiers in Psychology*, *4*:183, 1-10. <https://doi.org/10.3389/fpsyg.2013.00183>
32. Burger, B. & Toiviainen, P. (2013). MoCap Toolbox – A Matlab toolbox for computational analysis of movement data. In R. Bresin (Ed.), *Proceedings of the 10th Sound and Music Computing Conference (SMC10)*, (pp. 172-178). Stockholm, Sweden: KTH Royal Institute of Technology.
33. Puupponen, A., Jantunen, T., Wainio, T., & Burger, B. (2013). Messing with the head: On the form and function of head movements in Finnish Sign Language. In *Proceedings of the 11th Theoretical Issues in Sign Language Research Conference (TISLR11)*. London, UK: University College.
34. Saarikallio, S., Luck, G., Burger, B., Thompson, M. R., & Toiviainen, P. (2013). Dance moves reflect current affective state illustrative of approach-avoidance motivation. *Psychology of Aesthetics, Creativity, and the Arts*, *7*(3), 296-305. <https://doi.org/10.1037/a0032589>
35. Jantunen, T., Burger, B., De Weerd, D., Seilola, I., & Wainio, T. (2012). Experiences from collecting motion capture data on continuous signing. In N. Calzolari et al. (Eds.), *Proceedings of the 5th Workshop on the Representation and Processing of Sign Languages: Interactions between Corpus and Lexicon at the 8th International Conference on Language Resources and Evaluation (LREC8)*, (pp. 75-82). Istanbul, Turkey: European Language Resources Association.
36. Karppa, M., Jantunen, T., Viitaniemi, V., Laaksonen, J., Burger, B., & De Weerd, D. (2012). Comparing computer vision analysis of signed language video with motion capture recordings. In N. Calzolari et al. (Eds.), *Proceedings of the 8th International Conference on Language Resources and Evaluation (LREC8)*, (pp. 2421-2425). Istanbul, Turkey: European Language Resources Association.

37. Burger, B. & Bresin, R. (2010). Communication of musical expression by means of mobile robot gestures. *Journal on Multimodal User Interfaces*, 3, 109-118. <https://doi.org/10.1007/s12193-009-0022-8>
38. Luck, G., Saarikallio, S., Burger, B., Thompson, M. R., & Toiviainen, P. (2010). Effects of the Big Five and musical genre on music-induced movement. *Journal of Research in Personality*, 44(6), 714-720. <https://doi.org/10.1016/j.jrp.2010.10.001>

Peer-reviewed handbook articles

39. Van Dyck, E., Burger, B., & Orlandatou, K. (2017). The communication of emotions in dance. In Lesaffre, M. & Maes, P.-J. & Leman, M. (Eds.), *The Routledge Companion to Embodied Music Interaction* (pp. 122-130). Routledge. <https://doi.org/10.4324/9781315621364-14>

Non-refereed scientific articles

40. Burger, B., London, J., & Toiviainen, P. (2017). Introduction to the Special Issue on SysMus16. *Psychomusicology: Music, Mind, and Brain*, 27(3), 146-147. <https://doi.org/10.1037/pmu0000190>
41. Järvinen-Lepistö, P., Burger, B., & Ala-Ruona, E. (2014). Motor performance in post-stroke recovery using active music therapy. In M. K. Song (Ed.), *Proceedings of the 13th International Conference for Music Perception and Cognition and 5th Conference of Asia-Pacific Society for the Cognitive Sciences of Music*. Yonsei University, Seoul, South Korea.
42. Burger, B., Polet, J., Luck, G., Thompson, M. R., Saarikallio, S., & Toiviainen, P. (2013). Investigating relationships between music, emotions, personality, and music-induced movement. In G. Luck & O. Brabant (Eds.), *Proceedings of the 3rd International Conference on Music and Emotion (ICME3)*. Jyväskylä, Finland: University of Jyväskylä.
43. Burger, B., Thompson, M. R., Saarikallio, S., Luck, G., & Toiviainen, P. (2013). Oh happy dance: Emotion recognition in dance movement. In G. Luck & O. Brabant (Eds.), *Proceedings of the 3rd International Conference on Music and Emotion (ICME3)*. Jyväskylä, Finland: University of Jyväskylä.
44. Burger, B., Saarikallio, S., Luck, G., Thompson, M. R., & Toiviainen, P. (2012). Emotions Move Us: Basic Emotions in Music Influence People's Movement to Music. In E. Cambouropoulos, C. Tsougras, P. Mavromatis, & K. Pasteriadis (Eds.), *Proceedings of the 12th International Conference on Music Perception and Cognition and 8th Triennial Conference of the European Society for the Cognitive Sciences of Music (ICMPC12/ESCOM8)*, (pp. 177-182). Thessaloniki, Greece: Aristotle University.
45. Burger, B., Thompson, M. R., Luck, G., Saarikallio, S., & Toiviainen, P. (2012). Music moves us: Beat-related musical features influence regularity of music-induced movement. In E. Cambouropoulos, C. Tsougras, P. Mavromatis, & K. Pasteriadis (Eds.), *Proceedings of the 12th International Conference in Music Perception and Cognition and 8th Triennial Conference of the European Society for the Cognitive Sciences for Music (ICMPC12/ESCOM8)*, (pp. 183-187). Thessaloniki, Greece: Aristotle University.
46. Luck, G., Saarikallio, S., Thompson, M. R., Burger, B., & Toiviainen, P. (2012): Hips don't lie: Multi-dimensional ratings of opposite-sex dancers' perceived attractiveness. In E. Cambouropoulos, C. Tsougras, P. Mavromatis, & K. Pasteriadis (Eds.), *Proceedings of the 12th International Conference in Music Perception and Cognition and 8th Triennial Conference*

- of the European Society for the Cognitive Sciences for Music (ICMPC12/ESCOM8)*, (pp. 630-634). Thessaloniki, Greece: Aristotle University.
47. Luck, G., Saarikallio, S, Thompson, M. R., Burger, B., & Toiviainen, P. (2012): Do opposites attract? Personality and seduction on the dance floor. In E. Cambouropoulos, C. Tsougras, P. Mavromatis, & K. Pasiadis (Eds.), *Proceedings of the 12th International Conference in Music Perception and Cognition and 8th Triennial Conference of the European Society for the Cognitive Sciences for Music (ICMPC12/ESCOM8)*, (pp. 626-629). Thessaloniki, Greece: Aristotle University.
48. Luck, G., Saarikallio, S, Thompson, M. R., Burger, B., & Toiviainen, P. (2012): Hot or not? Personality and attraction on the dance floor. In T. Himberg, J. Vuoskoski, & T. Eerola (Eds.), *Proceedings of the 16th Annual Symposium for Music Scholars in Finland*, (pp. 55-61). Jyväskylä, Finland: University of Jyväskylä.
49. Luck, G., Saarikallio, S, Thompson, M. R., Burger, B., & Toiviainen, P. (2012): Moves like Jagger: Multidimensional ratings of attractiveness of opposite-sex dancers. In T. Himberg, J. Vuoskoski, & T. Eerola (Eds.), *Proceedings of the 16th Annual Symposium for Music Scholars in Finland*, (pp. 62-68). Jyväskylä, Finland: University of Jyväskylä.
50. Burger, B., Thompson, M. R., Saarikallio, S., Luck, G., & Toiviainen, P. (2010). Influence of musical features on characteristics of music-induced movements. In S. M. Demorest, S. J. Morrison, & P. S. Campbell (Eds.), *Proceedings of the 11th International Conference on Music Perception and Cognition (ICMPC11)*, (pp. 425-428). Seattle, WA: University of Washington.
51. Luck, G., Saarikallio, S., Thompson, M. R., Burger, B., & Toiviainen, P. (2010). Effects of personality and genre on music-induced movement. In S. M. Demorest, S. M. Demorest, S. J. Morrison, & P. S. Campbell (Eds.), *Proceedings of the 11th International Conference on Music Perception and Cognition (ICMPC11)*, (pp. 123-126). Seattle, WA: University of Washington.
52. Saarikallio, S., Luck, G., Burger, B., Thompson, M. R., & Toiviainen, P. (2010). Emotional expressivity and positive mood increase music-induced movement. In S. M. Demorest, S. M. Demorest, S. J. Morrison, & P. S. Campbell (Eds.), *Proceedings of the 11th International Conference on Music Perception and Cognition (ICMPC11)*, (pp. 569-570). University of Washington, Seattle, WA.

Scientific books

53. Burger, B., London, J. & Toiviainen, P. (2017). Special Issue on the SysMus16 conference. *Psychomusicology: Music, Mind, & Brain* 27(3).
54. Burger, B., Bamford, J. S., & Carlson, E. (2016). *The 9th International Conference of Students of Systematic Musicology (SysMus16), University of Jyväskylä, June 8-10 2016: Programme, abstracts & proceedings*. Finland: University of Jyväskylä.

Publications intended for professional communities

55. Burger, B. (2014). Musiikki tuottaa liikettä. Musiikkilaji, rytmi ja musiikin herättämät tunteet vaikuttavat tapaan, jolla käytämme kehoamme. *Liikunta & Tiede*, 1, 24-25.

Theses

56. Burger, B. (2013). Move the way you feel - Effects of musical features, perceived emotions, and personality on music-induced movement. PhD dissertation. Jyväskylä Studies in Humanities, 215. University of Jyväskylä, Jyväskylä, Finland.
<https://jyx.jyu.fi/handle/123456789/42506?locale-attribute=en>