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TRISTAN LORIA

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PROFESSIONAL EXPERIENCE

Assistant Professor (tenure track) **07/23 -Present**
Washington State University
Department of Kinesiology and Educational Psychology
College of Education

Postdoctoral Fellow **11/19 – 06/23**
Music and Health Research Collaboratory
Supervisor: Dr. Michael Thaut
Faculty of Music
University of Toronto

EDUCATION

University of Toronto
Doctor of Philosophy (Exercise Sciences) **2015-2019**
Supervisor: Dr. Luc Tremblay

University of Toronto
Master of Science (Exercise Sciences) **2013-2015**
Supervisor: Dr. Luc Tremblay

Toronto Metropolitan University (formerly Ryerson University)
Bachelor of Arts (Psychology) **2007-2012**
Honors Thesis Supervisor: Dr. Frank Russo

PEER-REVIEWED PUBLICATIONS (* INDICATES STUDENT TRAINEE)

13. **Loria, T.,** Duinker, B., Roth, T*., Huang, A., & Thaut, M. H. (In Press). Please unmute your microphone: Comparing the effectiveness of remote vs. in-person percussion training. *Musicae Scientiae*

12. Mostofinejad, A*., Goodman, R., **Loria, T.,** Thaut, M. H. & Tremblay, L. (2023). Substituting some unassisted practice with robotic guidance: Assessing the feasibility of mixed practice for music-based interventions. *NeuroRehabilitation*. https://doi.org/10.3233/NRE-220286

11. Malouka, S*., **Loria, T.,** Crainic, V., Thaut, M. H., & Tremblay, L. (2023). Auditory cueing facilitates temporospatial accuracy of sequential movements. *Human Movement Science, 89*, 103087. https://doi.org/10.1016/j.humov.2023.103087

10. **Loria, T.,** Teich, J. E*., Pranjić, M*., Tan, M*., Huang, A., & Thaut, M. H. (2022). The impact of limb velocity variability on mallet accuracy in marimba performance. *Journal of Motor Behavior, 54*(6), 694-705. https://doi.org/10.1080/00222895.2022.2069080

9. **Loria, T.,** Tan, M*., de Grosbois, J., Huang, A., & Thaut, M. H. (2022). Temporospatial alterations in upper-limb and mallet control underlie motor learning in marimba performance. *Frontiers in Psychology: Performance Science, 13*: 834869. https://doi.org/10.3389/fpsyg.2022.834869

8. **Loria, T.,** De Grosbois, J. P., Haire, C. Vuong, V., Schaffert, N., Tremblay, L., & Thaut, M. H. (2022). Music-based intervention drives paretic limb acceleration into intentional movement frequencies in chronic stroke rehabilitation. *Frontiers in Rehabilitation Sciences*, *3*: 989810. http://doi.org/10.3389/fresc.2022.989810

7. **Loria, T.,** Huang, A., Henechowicz, T*., & Thaut, M. (2021). Computational approaches to music motor performance: Clustering of percussion kinematics underlying performance style. *Frontiers in Psychology, 16:* 725016. https://doi: 10.3389/fpsyg.2021.725016

6. **Loria, T.,** Tanaka, K., Watanabe, K., & Tremblay, L. (2020). Deploying attention to the target location of a pointing action modulates audio-visual processes at non-target locations. *Attention, Perception, & Psychophysics, 82*, 3507-3520.

5. **Loria, T.,** Manzone, D*., Crainic, V*., & Tremblay L (2019). Ipsilateral eye contributions to online visuomotor control of right upper-limb movements. *Human Movement Science, 66,* 407-415.

4. Manzone, D*. M., **Loria, T.,** & Tremblay, L. (2018). I spy with my dominant eye. *Journal of Motor Behavior, 50*(3), 330-342.

3. **Loria, T.,** de Grosbois, J., & Tremblay, L. (2016). Hear that peak? Utilization of auditory and visual feedback at peak limb velocity. *Quarterly Journal of Exercise and Sport, 87*(3), 254-261.

2. Behar, A., Nespoli, G., **Loria, T.,** & Russo, F. A. (2013). Validation of the CSA Z107, 56 standard method for the measurement of noise exposure from headsets. *Proceedings of Meetings on Acoustics, 19*, 040148.

1. **Loria, T.** & Russo, F. A. (2012). Do urban soundscapes influence visual attention? *Canadian Acoustics – Acoustique Canadienne, 40*(3), 126-127.

PRESENTATIONS

Invited Talk

1. **Loria, T.** (2020). Music and Health: The role of rhythmically-based movement in rehabilitation, neuroscience, and pedagogy. Presented at the *Music-Motion-Brain Symposium*, Carnegie Mellon University, Pittsburgh, PA, USA, July 11.

Conference Presentations

20. **Loria, T.,** Duinker, B., Roth, T*., Zhang, J. J., Huang, A., & Thaut M. H. (2023). Musical training alters subcomponents of accent production in percussion. Oral Presentation presented at the *Biennial meeting of the International Society for Performance Science*, Warsaw, Poland, August 17-20.

19. Fraga, A*., **Loria, T.,** Ardelli, E., Cervini, E., Fraser, N., Huang, A., & Thaut, M. H. (2023) It was just my imagination: Combined imagery/physical practice yields comparable benefits as physical practice in snare drum performance. Oral Presentation at the *Biennial meeting of the International Society for Performance Science*, Warsaw, Poland, August 17-20.

18. Teich, J. E*., Tan, M*., **Loria, T.,** Zhang, J. J., Huang, A., & Thaut, M. H. (2023). Investigating audiomotor interactions in percussion via expressive performance dynamics. Poster Presentation at the *Biennial meeting of the International Society for Performance Science*, Warsaw, Poland, August 17-20.

17. Mostofinejad, A*., Goodman, R. **Loria, T.,** Thaut, M. H., & Tremblay, L. (2023). Intermittent robotic guidance during an auditory-cued rhythmic sequential task: Effects on spatial vs. temporal accuracy. Poster Presentation at the *Annual Meeting of the Society for Neuroscience,* Washington, District of Columbia, USA, November 11-15.

16. **Loria, T.,** Duinker, B., Roth, T*., Zhang, J. J., Huang, A., & Thaut, M. H. (2023). Musical training alters subcomponents of accent production in percussion. Oral Presentation at the *9th International Symposium for Performance Science,* Warsaw, Poland, August 17-20.

15. Teich, J. E*., Tan, M*., **Loria, T.,** Zhang, J. J., Huang, A., & Thaut, M. H. Investigating audiomotor interactions in percussion via expressive performance dynamics. Poster Presentation at the *9th International Symposium for Performance Science,* Warsaw, Poland, August 17-20.

14. Fraga, A.*., **Loria. T.,** Ardelli, E., Cervini, E., Fraser, N., Huang, A., & Thaut, M. H. (2023). It was just my imagination: Combined imagery/physical practice yields comparable benefits as physical practice in snare drum performance. Oral Presentation at the *9th International Symposium for Performance Science,* Warsaw, Poland, August 17-20.

13. Mostofinejad, A*., Goodman, R., **Loria, T.**, & Tremblay, L. (2022). Substituting some unassisted practice with robotic guidance: Extending support for mixed practice within a rhythmic task. Oral Presentation at the *Annual Meeting of the Canadian Society for Psychomotor Learning and Sports Psychology,* Montreal, Quebec, Canada, October 13-16

12. **Loria, T.**, Haire, C., Vuong, V., De Grosbois, D., Tremblay, L. & Thaut, M. H. (2022). Rhythmic music-based intervention promotes chronic stroke recovery via improved paretic limb acceleration irrespective of lesion location. Poser Presentation at the *Annual Meeting of the Society for Neuroscience,* San Diego, California, USA, November 12-16.

11. **Loria, T.**, Duinker, B., Roth, T*., Huang, A., & Thaut, M. H. (2022). Impacts of remote percussion training on motor output, perceived expressivity, and student satisfaction. Poster Presentation at the Biennial Meeting of the *Society for Music Perception and Cognition,* Portland, Oregon, USA, August 4-7.

10. **Loria, T.**, Pranjić, M*., Teich, J*., Tan, M*., Huang, A., & Thaut, M. (2021). Assessing mallet endpoint accuracy in four-mallet marimba performance. Oral Presentation at the 8th *International Symposium on Performance Science,* McGill University, Montréal, CA, October 27-30.

9. Tan, M*., **Loria, T.**, de Grosbois, J., Huang, A., & Thaut, M. (2021). Temporospatial alteration in mallet and elbow movements underly motor learning in four-mallet marimba performance. Oral Presentation at the 8th *International Symposium on Performance Science,* McGill University, Montréal, CA, October 27-30

8. Pranjić, M*▪., Teich, J*▪., **Loria, T.**, Tan, M*., Huang, A., & Thaut, M. (2021). Limb velocity variability determines mallet accuracy in marimba performance. Oral Presentation at the 8th *International Symposium on Performance Science,* McGill University, Montréal, CA, October 27-30.
▪ indicates joint first-authors

7. **Loria, T.**, de Grosbois, J., Haire, C., Vuong, V., Tremblay, L., & Thaut, M. (2021). Music-based rehabilitation improves paretic limb control in chronic stroke. Oral Presentation at the 8th *International Symposium on Performance Science,* McGill University, Montréal, CA, October 27-30. (Manuscript Attached)

6. **Loria, T.**, Haung, A., Henechowicz, T*., & Thaut, M. (2021) Rhythmic and spatial control of sound producing movements in experts and trainee percussionists. Poster Presentation at the 18th *Rhythm Production and Perception Workshop*, RITMO, University of Oslo, Oslo, NO, Jun. 22-25.

5. Thaut, M., Vuong, V., **Loria, T.**, & Cole, L. (2020) Advances in clinical neuroscience of music: Extending foundations of brain mechanisms for music-based interventions in Neurologic Music Therapy. Symposium presented at the *American Congress for Rehabilitation Medicine,* Atlanta, GA, USA, October 21-24.

4. **Loria T.**, Tanaka, K., Watanabe, K., & Tremblay, L. (2019). Alignment of visual and spatial attention enhances susceptibility to the audiovisual fusion illusion. *Society for Neuroscience,* Chicago, IL, USA, October 19-23, *Poster Presentation*

3. **Loria, T.**, Tanaka, K., Watanabe, K., & Tremblay, L. (2018). Modulation of audio-visual processes at attended vs. unattended spatial locations. *Society for Neuroscience,* San Diego, CA, USA, November 3-7, *Poster Presentation*

2. **Loria T.**, Tanaka, K., Tremblay, L., & Watanabe, K. (2018). Attentional modulation of multisensory event perception in voluntary reaching movements. *International Multisensory Research Forum*, Toronto, ON, CAN, June 14-17, *Poster Presentation*.

1. **Loria T.**, Goodman, R., & Tremblay, L. (2017). Tossing out vision: Modulation of audio-visual processing during rapid actions. *International Multisensory Research Forum*, Nashville, TN, USA, May 19-22, *Poster Presentation*.

PUBLISHED ABSTRACTS

10. **Loria, T.**, de Grosbois, J., Haire, C., Vuong, V., Tremblay, L., & Thaut, M. (2021). Kinematic accelerometry assessment of music-based motor training in stroke rehabilitation. *Archives of Physical Medicine and Rehabilitation, 102*(10), e29.

9. **Loria, T.**, Manzone, J*., Welsh, T. N., & Tremblay, L. (2019). Visual orienting and multisensory perception: the role of cue frequency. *Journal of Exercise, Movement, and Sport, 51*(1), 35.

8. Malouka, S*., **Loria, T.**, Crainic, V*., Thaut, M., & Tremblay, L. (2019). Bimodal cueing can facilitate rhythmic training for sequential upper-limb movements. *Journal of Exercise, Movement, and Sport, 51*(1), 36.

7. Manzone, D. M*., **Loria, T.**, Zhang, H. T., & Tremblay, L. (2019). Is it the dominant or ipsilateral eye that contributes to online visuomotor control the most? *Journal of Exercise, Movement, and Sport, 51*(1), 39.

6. **Loria, T.**, Hajj, J*., Tanaka, K., Watanabe, K., & Tremblay, L. (2019). The deployment of spatial attention during goal-directed action alters audio-visual integration. *Journal of Vision, 19*(10), 111.

5. **Loria, T.**, Hajj, J*., Tanaka, K., Watanabe, K., & Tremblay L. (2018). Visual attention influences audiovisual event perception and the susceptibility to the fusion illusion. *Journal of Exercise, Movement, and Sport, 50*(1), 46.

4. **Loria, T.**, Henechowicz, T*, & Tremblay, L. (2017). Performing rapid actions affects audiovisual processing. *Journal of Exercise, Movement, and Sport, 49*(1), 28.

3. **Loria, T.**, Crainic, V*., Manzone, D*., & Tremblay, L. (2016). I laterally spy with my dominant eye. *Journal of Exercise, Movement, and Sport, 48*(1)*, 30.*

2. **Loria, T.**, Manzone, D*., Crainic, V*., & Tremblay, L. (2016). Judging endpoint accuracy with brief monocular visual cues. *Journal of Vision*, 16(2), 976.

1. **Loria, T.**, de Grosbois, J., & Tremblay, L. (2015). Performance in a within-modality temporal order judgment task reveals suboptimal multisensory integration following stimuli presentation at peak limb velocity. *Journal of Exercise, Movement, and Sport, 47*(1), 1042.

COURSES TAUGHT

KINES 312: Research in Kinesiology **Fall 2023**
Washington State University

KINES 560: Neuromuscular Physiology **Fall 2023**
Washington State University

SCHOLARLY AWARDS AND FELLOWSHIPS

Franklin Henry Young Scientist Award **July 2020**
National award recognizing research by a student member of the Canadian Society for Psychomotor Learning and Sport Psychology. Criteria for selection are originality of the research problem, thoroughness and accuracy of the exploration, and impact of the results and/or conclusions on current and future research

Doctoral Completion Award **Sept. 2019**
Institutional award to facilitate the completion of graduate studies at the University of Toronto
Value: $3,000 CAD

Visiting Research Fellow – Waseda University, Tokyo, Japan **Sept.–Dec. 2017**
Faculty of Science and Engineering
Supervisor: Dr. Katsumi Watanabe

Bertha Rosenstadt Scholarship **Sept. 2017**
Internal award: Faculty of Kinesiology and Physical Education
Value: $5,000 CAD

B. Evans and J. Daniels Scholarship **Sept. 2015**
Internal award: Faculty of Kinesiology and Physical Education
Value: $5,000 CAD

AWARDED EXTERNAL FUNDING APPLICATIONS

Thaut, M. (Principal Applicant), **Loria, T.** (Co-applicant [CA]), Karlinsky, A. (CA), Huang, A. (Collaborator [CO]), & John, B. (CO) (2020). I get by with a little help from my partner: The impact of paired practice on learning and motivation in music training. Awarded by the *Social Sciences and Humanities Research Council of Canada: Insight Development Grant Competition.*

Value: $52,060 CAD

AWARDED INTERNAL FUNDING APPLICATIONS

Loria, T. Building performance-research connections across music studies workshop (2023). Awarded by the *Social Sciences and Humanities Research Council of Canada: Institutional Grants.*
Value: $513 CAD

PROFESSIONAL MEMBERSHIPS

- International Society for Performance Science
- American Congress of Rehabilitation Medicine
- Canadian Society for Psychomotor Learning and Sports Psychology

- Society for Neuroscience