

DARIUS J. VALEVICIUS

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EDUCATION

- PhD, Université de Montréal** 2023 – Present
Neuroscience, Faculty of Medicine
- Using generative AI and brain decoding to create affective stimuli for emotion research.
- MSc, McGill University** 2020 – 2021
Integrated Program in Neuroscience
- Studying the intersection of emotion, music, and pain perception.
- BASc, McGill University** 2017 – 2020
Cognitive Science, First-Class Honours
Minor in History and Philosophy of Science

PROFESSIONAL AND RESEARCH EXPERIENCE

- Research Software Developer** 2021 – 2023
McGill Centre for Integrative Neuroscience
- Integrating brain imaging tools with high-performance computing servers.
 - Improving ease-of-use and reproducibility in functional brain imaging analyses.
- Program Assistant** 2022 – 2024
Building 21, McGill University
- Mentoring students and assisting with workshops and web presence for an interdisciplinary research hub.
- Research Assistant (Philosophy)** 2019 – 2021
McGill Department of Philosophy
- Studying the epistemology and ethics of psychometrics in youth mental health.
 - Conducting a training workshop for clinicians in the youth mental health sector.

AWARDS AND DISTINCTIONS

- Bourse en intelligence artificielle** 2024
Études supérieures et postdoctorales, Université de Montréal (\$10,000)
- Postgraduate Scholarship – Doctoral** 2023
National Science and Engineering Research Council of Canada (\$101,000)
- Canada Graduate Scholarship – Master’s** 2020
National Science and Engineering Research Council of Canada (\$17,500)
- Graduate Excellence Award** 2020
Faculty of Science, McGill University (\$4,000)

Science Undergraduate Research Award Faculty of Science, McGill University (\$7,500)	2019
Faculty of Science Scholarship Faculty of Science, McGill University (\$800)	2019

SKILLS

Computational skills

- Languages: Python, C#, R, MATLAB.
- Software development pipelines and utilities (Unix, Git, Docker).
- Game development in Unity and Blender.

Languages

- Fluent in English, French, and Lithuanian.

Arts

- Drawing, painting, digital art, and music performance.

COMMUNITY INVOLVEMENT

Event Organizer (McGill's Building 21) <ul style="list-style-type: none"> ▪ As of January 2024, hosting weekly Art Nights and Soup & PhD Nights at McGill's Building 21, open to students and others from across Montréal. 	2022 – Present
Game Development Mentor (CÉGEP Game Jam) <ul style="list-style-type: none"> ▪ Aiding CÉGEP students in developing their first video game projects at yearly province-wide game jams, hosted by Vanier College. 	2022 – Present
Day Shelter Volunteer (Resilience Montreal) <ul style="list-style-type: none"> ▪ Preparing food, clothing, and essential items for homeless persons in downtown Montreal. 	2020 – 2022
Student Association of Cognitive Science (McGill) <ul style="list-style-type: none"> ▪ Organized events and services for the student body. 	2018 – 2020

PRESENTATIONS & PUBLICATIONS

Publications & Manuscripts

Valevicius, D., Lépine Lopez, A., Diushekeeva, A., Lee, A., & Roy, M. (2023) *Emotional responses to favorite and relaxing music predict music-induced hypoalgesia*. *Frontiers in Pain Research*.

- The Guardian (<https://www.theguardian.com/science/2023/oct/25/listening-to-moving-music-may-reduce-pain-study-says>)
- CNN (<https://www.cnn.com/2023/10/25/health/listen-to-sad-songs-less-pain-wellness/index.html>)
- The Times (<https://www.thetimes.co.uk/article/your-bittersweet-favourite-songs-are-most-effective-at-reducing-pain-nfdt8hqzn>)
- CBC The Current (<https://www.cbc.ca/listen/live-radio/1-63-the-current/clip/16020230-ambulance-wait-times-crisis-levels-israel-hamas-conflict-playing>)

- CBC Quirks and Quarks (<https://www.cbc.ca/radio/quirks/quirks-quarks-nov-11-2023-1.7023500>)

Valevicius, D., Beck, N., Kasper, L., Boroday, S., Bayer, J., Rioux, P., Caron, B., Evans, A.C., & Khalili-Mahani, N. (2023) *Web-based processing of physiological noise in fMRI: Addition of the PhysIO toolbox to CBRAIN*. *Frontiers in Neuroinformatics*.

Invited Talks

Valevicius, D., Lépine Lopez, A., Diushekeeva, A., Greenberg, D.M., Roy, M. (2021). “Experiments on Music and Pain”, Bicentennial STARS event, McGill University, Montreal.

Eran Tal, Skye Barbic, Danielle Celone, Kyle Dewsnap, Sebastian Rodriguez Duque, Sophie Osiecki, and Darius Valevicius. (2021). “How to measure youth mental health responsibly”, Ethical, Epistemological, and Historical Perspectives on Public Health and Wellness Workshop, University of Indiana at Bloomington.

Desjardins S., Diushekeeva D., Lépine Lopez A., Valevicius D. (2019, October 2nd). “Music and Pain: Emotion, Distraction, Reward”, Media Health: Play the Pain, Concordia University, Montreal.

Conference Presentations

Caron, B., Adalat, R., Beck, N., Boroday, S., Das, S., Khalili-Mahani, N., Quesnel, D., Rioux, P., Valevicius, D., Evans., A. (2022) “CBRAIN: a web-based, distributed computing platform for collaborative neuroinformatics research”, 2022 Big Data Neuroscience Workshop, Austin.

Sebastian Rodriguez Duque, Skye Barbic, Eran Tal, Danielle Celone, Kyle Dewsnap, Sophie Osiecki, and Darius Valevicius. (2021). “Measuring what Matters: Development of a Measurement Curriculum for Service Providers Working Within Integrated Youth Services”, Frayme Learning Institute.

Valevicius, D., Greenberg, D.M., Roy, M. (2020). “The effects of music attributes on pain perception”, The Annual Pain Retreat of the Quebec Network of Junior Pain Investigators, Mont Sainte-Anne.

Posters

Valevicius, D., Haddad, C., & Taschereau-Dumouchel, V. (2024) *Evolving synthetic images for the control of affective experience*. CCN 2024, Boston.

Valevicius, D., Boroday, S., Beck, N., Rioux, P., Caron, B., Adalat, R., Evans, A.C., & Khalili-Mahani, N. (2022) *Integration of software tools in CBRAIN: A guide for user-led development*. OHBM 2023, Montreal.

Valevicius, D., Boroday, S., Beck, N., Rioux, P., Caron, B., Adalat, R., Evans, A.C., & Khalili-Mahani, N. (2022) *Introduction of the PhysIO noise modeling toolbox to CBRAIN*. OHBM 2022, Glasgow.

Lépine Lopez, A., Valevicius, D., Diushekeeva, A., Roy, M. (2021) *Analgesie induite par la musique : Une analyse thématique des préférences musicales*. 43rd Annual Congress of the SQRP, Montreal.

Valevicius, D., Greenberg, D.M., Roy, M. (2020). *The effects of music attributes on pain perception*. Annual Scientific Meeting of the Canadian Pain Society, Calgary.

Lépine Lopez, A., Valevicius, D., Diushekeeva, A., Roy, M. (2020). *Music-induced analgesia: Comparing musicotherapy, emotional dimensions of music, and preferred music*. Annual Pain Day of the Alan Edwards Centre for Pain Research, Montréal.